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ABSTRACT

This Memorandum is a manual or guide for users of the Undergraduate Pilot Training (UPT) computer cost model. The UPT model is designed to enable the user to estimate UPT requirements for manpower, supplies, equipment, services and facilities and the costs of those resources in terms of research and development costs, investment costs and annual operating costs. Section I of the Memorandum is an introductory explanation of the purposes of the model. Section II is a general description of the program in terms of what each subroutine does. Section III illustrates a feature unique to the IBM 360 operating system, used with this computer program to reduce the core storage requirement for execution. Section IV describes data inputs and illustrates the input procedure using a listing of a sample input deck. Section V contains a description of two forms of output and an illustration of one of these forms. The UPT cost model program is written in FORTRAN IV. During execution, the program requires approximately 145K bytes of core storage on an IBM 360/65 computer, if the OVERLAY feature is used. All input data are read from cards and the output is printed. A listing of the program input data elements is presented in Appendix A. A symbolic listing of the Fortran IV computer program is included as Appendix B. Appendix C presents the program in flowchart form. For related documents, see AC 010 340-343 and AC 010 345-347. (Author/CK)

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MEMORANDUM
RM-6084-PR
DECEMBER 1969

THE PILOT TRAINING STUDY:
A User's Guide to the Undergraduate Pilot Training Computer Cost Model

Lois Littleton

PREPARED FOR:
UNITED STATES AIR FORCE PROJECT RAND

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PREFACE

In April 1967, the Office of the Assistant Secretary of Defense (Manpower and Reserve Affairs) formed a Pilot Advisory Committee to study "Pilots as a National Resource." The Committee consisted of the Assistant Secretary and a representative of each of the three Services. Staff members from Rand were invited to attend the early meetings of the Committee. The outgrowth was that the Air Force member requested Rand to accept responsibility for examining the Air Force pilot training process. The objective of the Rand Pilot Training Study was to develop a series of computer models for use in estimating the resources required to produce pilots and the costs of training them. Further, the models were to be designed for sensitivity analyses and long-range planning.

For the convenience of readers whose interests may not extend to all aspects of the pilot training process, the results of the study are presented in eight volumes as follows:

Volume		
I	RM-6080-PR	The Pilot Training Study: Personnel Flow and the PILOT Model, by W. E. Mooz.
II	RM-6081-PR	The Pilot Training Study: A User's Guide to the PILOT Model, by Lois Littleton.
III	RM-6082-PR	The Pilot Training Study: Precommissioning Training, by J. W. Cook.
IV	RM-6083-PR	The Pilot Training Study: A Cost-Estimating Model for Undergraduate Pilot Training, by S. L. Allison.
V	RM-6084-PR	The Pilot Training Study: A User's Guide to the Undergraduate Pilot Training Model, by Lois Littleton.
VI	RM-6085-PR	The Pilot Training Study: Advanced Pilot Training, by P. J. Kennedy.
VII	RM-6086-PR	The Pilot Training Study: A Cost-Estimating Model for Advanced Pilot Training, by L. E. Knollmeyer.
VIII	RM-6087-PR	The Pilot Training Study: A User's Guide to the Advanced Pilot Training Computer Cost Model (APT), by H. E. Boren, Jr.

This Memorandum, Volume V of the series, describes the Undergraduate Pilot Training (UPT) Computer Cost Model, a computer model developed for use in estimating both the resources required and the attendant costs for any given configuration of the Undergraduate Pilot Training (UPT) Program. The procedures described herein may be followed without reference to the other Memorandums in the series. However, for an understanding of the purpose for which the model was constructed, the user will find it useful to read Volume IV which describes undergraduate pilot training. It is further suggested that the user read Volume I for an understanding of the part that UPT plays in the total process of training USAF pilots.

SUMMARY

This Memorandum is a manual or guide for users of the UPT cost model. The UPT computer model is designed to enable the user to estimate UPT requirements for manpower, supplies, equipment, services and facilities and the costs of those resources in terms of research and development costs, investment costs and annual operating costs. The model gives the user the options of estimating the current or long-range costs of the existing UPT program and the impact that virtually any program change will have on required resources and costs. Among the alternatives that can be examined are changes in the numbers and types of training aircraft and simulators; adjustments in prescribed syllabus hours for flight, simulator or classroom training; changes in numbers of graduates required; modifications of aircraft or simulator utilization rates, and changes in airspace, facilities (e.g., runways) or numbers of training bases.

Section I of the Memorandum is an introductory explanation of the purposes of the model. Section II is a general description of the program in terms of what each subroutine does. Section III illustrates a feature unique to the IBM 360 operating system, used with this computer program to reduce the core storage requirement for execution. Section IV describes data inputs and illustrates the input procedure using a listing of a sample input deck. Section V contains a description of two forms of output and an illustration of one of these forms.

The UPT cost model program is written in FORTRAN IV. During execution, the program requires approximately 145K bytes of core storage on an IBM 360/65 computer if the OVERLAY feature is used. Approximately 350K bytes of core storage are required if the OVERLAY feature is not employed. As indicated above, all input data are read from cards and the output is printed.

A listing of the program input data elements is presented in Appendix A. A symbolic listing of the FORTRAN IV computer program is included as Appendix B. Appendix C presents the program in flowchart form.

CONTENTS

Preface iii

Summary v

List of Figures ix

Section

I. Introduction 1

II. Program Description 2

III. Overlay Structure 4

IV. Input Deck Description 6

V. Output Description 12

Appendix:

A. Input Data Elements .... A-1 to A-46
B. Symbolic Listing of FORTRAN IV Computer Program B-1 to B-88
C. Illustrative Flowcharts and Definitions of the Variable Names Used in the Flowcharts .... C-1 to C-42

FIGURES

1. Sample Input Deck 10
2. First Page of Output, Showing UPT Student Load Capacity in Summary for All Bases 13
3. Second Page of Output, Showing UPT Capacity for AFB 1 14
4. Third Page of Output, Showing UPT Syllabus, Course Duration, and Numbers of Students for All Bases 15
5. Fourth Page of Output, Showing UPT Manpower Requirements for AFB 1 16
6. Fifth Page of Output, Showing UPT Aircraft Requirements for All Bases 17
7. Sixth Page of Output, Showing UPT Simulator Requirements for AFB 1 18
8. Seventh and Eighth Pages of Output, Showing UPT Costs for AFB 1 19
9. Ninth Page of Output, Showing UPT Costs not Allocated to Bases 20
10. Tenth Page of Output, Showing UPT Costs for Training Phase I 21
11. Eleventh Page of Output, Showing UPT Costs for Training Phase II 22
12. Twelfth Page of Output, Showing UPT Costs for Training Phase III 23
13. Thirteenth Page of Output, Showing UPT Costs not Allocated to Training Phases 24
14. Fourteenth Page of Output, Showing UPT Costs in Summary for All Bases 25

I. INTRODUCTION

The purpose of the UPT Cost Model is to provide a means for estimating the resources that will be required and the costs that will be incurred in conducting Undergraduate Pilot Training (UPT).

As explained in Volume IV of the Pilot Training Study,* most UPT trainees are newly-commissioned graduates of the Air Force Academy (AFA), Reserve Officer Training Corps (ROTC) and Officer Training School (OTS). Other trainees are rated and non-rated officers who enter UPT from active Air Force duty. Also, UPT training is given to various Air National Guard, Marine and foreign officers.

Undergraduate pilot training is conducted by the Air Training Command. The 53-week course provides flight training in three phases, the first phase using the single-engine, propeller-driven T-41; the second, the subsonic-jet T-37; and the third, the Supersonic T-38. The training is conducted at 10 ATC bases, where almost 4000 pilots are produced annually. During flying year 1969, more than one million training hours were logged in the T-37 and T-38 aircraft, and over 3000 training sorties were launched each day from the UPT bases.

About three-fourths of the entering students successfully complete the 53-week UPT course and thus earn their wings. They are then given survival training before being enrolled in one of the many advanced pilot training (APT) courses to qualify as a pilot of a specific type and model of USAF operational aircraft.

The UPT Cost Model is a tool for measuring the long-range effect of alternative policies and conditions such as changes in the required number of graduates, changes in course syllabus and changes in the training facilities. It can process requirements for a maximum of 20 years and 15 bases, and for a maximum of three training phases.

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*See Preface.

II. PROGRAM DESCRIPTION

The computer program UPT consists of a main routine and 35 subroutines. The main routine establishes array dimensions, specifies variable equivalences, reads control cards, sets the yearly input data (designated "array T") initially to zero, and calls each of the 35 subroutines. Each of the subroutines will be described briefly in the order in which they are called.

RTEXT	Reads from cards and prints text that describes the problem being executed.
INPUT	Reads input data from cards.
CUMCL	Computes the cumulative course length for each year.
ATTRLS	Computes entries excluding attrition into UPT for each year.
OTS	Computes entries into UPT from OTS for each year.
AVATTR	Computes the average attrition in UPT for all sources for each year and phase.
ENTGRD	Computes the entry--graduate average by year of UPT graduation for each year and phase.
STLOAD	Computes the student load for each year and phase.
CAP	Computes base capability and loading for each year, base and phase.
PRINT1	Prints the UPT capability summary.
PRINT2	Prints the UPT base capability for each base.
PRINT3	Prints the UPT program.
ZERO	Initializes variables used in subroutines OPMANP, MAMANP, FSMANP, VSMANP, ACCUM, and PRINT4.
OPMANP	Computes operations manpower required for each year and base.
MAMANP	Computes maintenance and administrative manpower required for each year and base.
FSMANP	Computes fixed support manpower required for each year and base.
VSMANP	Computes variable support manpower required for each year and base.
ACCUM	Accumulates manpower personnel required by year and base.
PRINT4	Prints UPT manpower required for each base.
EQUIP	Computes equipment required for each year, base, and phase.

PRINT5	Prints the UPT aircraft summary.
PRINT6	Prints the UPT simulator summary.
FACIL	Computes facilities required for each year and base.
INVCE	Computes the investment cost for equipment for each year.
INVCM	Computes the investment cost for manpower for each year.
INVCF	Computes the investment cost for facilities for each year.
ZERO1	Initializes the variables used in subroutine OPERC.
OPERC	Computes operating costs for each year.
COSTB	Accumulates costs by base.
COSTP	Accumulates costs by phase.
PRINT7	Prints UPT costs for each base.
PRINT8	Prints UPT costs not assignable to base.
PRINT9	Prints UPT costs for each phase.
PRINT10	Prints UPT costs not assignable to phase.
PRINT11	Prints the UPT cost summary.

III. OVERLAY STRUCTURE

The linkage editor feature OVERLAY, unique to the IBM 360 operating system, was used to reduce the amount of core required for execution. (See IBM Manual C28-6538 for a description of this feature.)

The Job Control Language cards used to implement the OVERLAY feature with the UPT Cost Model program are listed in the sequence shown below. The first card (//LKED.SYSIN DD *) and end card (/*) begin in column 1. The remaining cards begin in column 2 with a blank column 1 as indicated by the letter b.

```
//LKED.SYSIN DD *
bINSERT MAIN
bOVERLAY ONE
bINSERT INPUT
bOVERLAY TWO
bINSERT CUMCL
bOVERLAY TWO
bINSERT OTS
bOVERLAY TWO
bINSERT CAP
bOVERLAY TWO
bINSERT EQUIP
bOVERLAY TWO
bINSERT FACIL
bOVERLAY ONE
bINSERT ATTRLS
bOVERLAY ONE
bINSERT AVATTR
bOVERLAY ONE
bINSERT ENTGRD
bOVERLAY ONE
bINSERT STLOAD
bOVERLAY ONE
bINSERT PRINT1
bOVERLAY ONE
bINSERT PRINT2
bOVERLAY ONE
bINSERT PRINT3
bOVERLAY ONE
bINSERT ZERO
bOVERLAY ONE
bINSERT OPMANP
bOVERLAY ONE
bINSERT MAMANP
```

```
bOVERLAY ONE
bINSERT FSMANP
bOVERLAY ONE
bINSERT VSMANP
bOVERLAY ONE
bINSERT ACCUM
bOVERLAY ONE
bINSERT PRINT4
bOVERLAY ONE
bINSERT PRINT5
bOVERLAY ONE
bINSERT PRINT6
bOVERLAY ONE
bINSERT INVCE
bOVERLAY ONE
bINSERT INVCM
bOVERLAY ONE
bINSERT INVCF
bOVERLAY ONE
bINSERT ZERO1
bOVERLAY ONE
bINSERT OPERC
bOVERLAY ONE
bINSERT COSTB
bOVERLAY ONE
bINSERT COSTP
bOVERLAY ONE
bINSERT PRINT7
bOVERLAY ONE
bINSERT PRINT8
bOVERLAY ONE
bINSERT PRINT9
bOVERLAY ONE
bINSERT PRINT10
bOVERLAY ONE
bINSERT PRNT11
bOVERLAY ONE
bINSERT RTEXT
/*
```

If object modules are used, they should be placed immediately following the "LKED" card and before the "INSERT MAIN" card.

The following option must appear on the "EXEC" card when OVERLAY is used:

```
PARM.LKED='OVLY'
```

IV. INPUT DECK DESCRIPTION

The input deck consists first of a set of text cards, then a control card, and finally the data cards.

The text cards contain the descriptive text that is printed initially to describe the problem being executed. Any number of cards can be used. The text must be punched in columns 1-72. The last text card must have a "9" punched in column 80, signifying the end of the text section of the input deck. If the user does not desire a description of the problem to be printed, he must still include a card with only the "9" punched in column 80.

The control card contains the following information

NYRS = number of years in problem.

NBYR = last two digits of base year (for example, if base year is 1960, NBYR would be 60).

BASES = number of bases existing in base year.

INDC = 0, if only formal output is desired.
= 1, if extended output is desired (the two forms of output will be discussed in the output description section).

INDCC = 1, if extended output for facilities is desired;
= 0, if extended output for facilities is not desired.

The format for the control card is as follows:

Variable Name	Location (columns)	Format
NYRS	1-2	I2
NBYR	6-7	I2
BASES	11-12	F2.0
INDC	15	I1
INDCC	18	I1

All input data for one year are stored in the array T. These data are divided into 7 types for use in output computations. The purposes for which the computations are made and the series of index numbers used for input data identification are shown in Table 1.

Table 1

DATA TYPES, STORAGE INDICES AND COMPUTATION USES

Data Type	Storage Indices[a]	Used for Computation of
1	T(1) - T(30)	Course lengths
2	T(31) - T(55)	Student loads
3	T(56) - T(499)	Base capacities and loads
4	T(500) - T(1460)[a]	
	T(2532) - T(2621)	Manpower requirements
5	T(1461) - T(1625)	
	T(1931 - T(1936)	Equipment requirements
6	T(1626) - T(1901)	Facility requirements
7	T(1902) - T(2531)[b]	Costs

[a] The complete list of indices for all input data is shown in Appendix A. The numbers do not run in sequence because, as the program was developed, the need for additional index numbers for data types 4 and 5 became apparent.

[b] It may be noted in Appendix A that index numbers 728-730, 2109-2128 and 2427 are not used; they have been reserved for possible future use.

The input data are read in type sequence, each type being read and used for all years. The data for each new year replaces data contained in array T for the preceding year. Hence, if the value of a data element does not change from one year to the next, that data element does not need to be entered again for the year of no change.

Each data card has the same format. Each must contain a type number NTYPE and the year NYR; NYR will be "1" if the base year data are being entered and so on.

The index of T associated with a data element must precede that data element on a card. One card can accommodate seven such pairs.

The format of a data card is as follows:

Variable Name	Location (Columns)	Format
NTYPE	1-2	I2
NYR	5-6	I2
First index	9-12	I4
Data element (first index)	13-18	F6.3
Second index	19-22	I4
Data element (second index)	23-28	F6.3
Third index	29-32	I4
Data element (third index)	33-38	F6.3
Fourth index	39-42	I4
Data element (fourth index)	43-48	F6.3
Fifth index	49-52	I4
Data element (fifth index)	53-58	F6.3
Sixth index	59-62	I4
Data element (sixth index)	63-68	F6.3
Seventh index	69-72	I4
Data element (seventh index)	73-78	F6.3

Each data element is read in an F6.3 format. This format specifies a field 6 columns wide containing 3 decimal places. If a data element containing 1-6 digits and no decimal point is placed in the 6-column field, it would be read and used as a number containing 1-6 digits and 3 decimal places. The decimal point is always placed between the third and fourth columns of the 6-column field. For example, the data element 765972 would be read as 765.972. If the number 5 were placed in the fourth column of the 6-column field, it would be read as .5. A "5" placed in the sixth column would be read as .005; a "2" placed in the second column would be read as 20. If a data element containing 1-5 digits and a punched decimal point is placed in the 6-column field, it would be read and used exactly as entered. The punched decimal point overrides the input format decimal specification. Hence, a number containing more than 3 decimal places can be entered in the program. For example, the data element 1.0451 placed on a data card will be used as 1.0451.

To summarize, a data element can be placed on a data card as a number containing 1-6 digits and no decimal point. In this case, a decimal point would be read according to the F format specification. On the other hand, a data element containing 1-5 digits and a decimal point can be entered, in which case the punched decimal point overrides the implied decimal point location as specified by the F format.

Data for one year of any type can continue on as many data cards as necessary. A "9999" must be punched in the index field directly following the last data element for one year. The "9999" indicates the end of data for that year. Data for the next year should begin on the next card.

The data cards must be ordered first by type, then by year, so that type 1 data for all years is placed first followed by type 2 data for all years and so on through the seven types.

The program checks the type number and the year on each card for order. Error messages are printed if a card is out of order, and execution is then terminated. Also, the program checks to ensure that there is at least one card for each year in every type section.

If the data for one year is the same as that of the preceding year, one input card is required for the year of no change. This card will contain the type number, the year number, and a "9999" in the first index field.

There is no need to enter data elements not relevant to the problem.

All possible input data elements are listed in Appendix A by type and index number. Note that some type 7 data elements are input in millions and thousands (e.g., data elements with indices 1902 and 1905). The names listed on the right-hand side of each page are those used in the FORTRAN-IV program and in the flowcharts presented in Appendix C.

Figure 1 illustrates a sample input deck. Notice that in this sample deck there is one text card. It contains only a "9" in column 80 because the printing of a descriptive text was not desired.

The control card specifies a problem consisting of three years with base year 1970, one base, and only formal output desired.

For all seven types of data, the data values do not change for the second and third years. A "9999" in the first index field of all type cards containing a "2" or "3" in the year field illustrates this point.

```
3   70    1                                                                     9
1   1     1 30        2 90      3120        4 .9716   5 .9716   6 .9716   7  5
1   1     8 14       13  3      14  5      17 62     18147     19 90     20 38
1   1    21 47       22 90      24 18      25 24     26  15    27  15    28    5
1   1    29  8       30350    9999
1   2  9999
1   3  9999
2   1    31 50       32150      33 10      34 30     35 60     36   04   37    05
2   1    38   03     39    06   40    13   41    05  42    02  43   02   44    03
2   1    45   16     46    17   47    05   48    08  49    09  50   07   51    16
2   1    52   17     53    05   54  5      55 30   9999
2   2  9999
2   3  9999
3   1    56  1       60  1      61  1     150  3    151  3    195    75 196    75
3   1   240    85   241    90  285 35     286 30    464 122   466 80    467 75
3   1   469    05   470    05  472    97  473    97 475    93 476    85 9999
3   2  9999
3   3  9999
4   1   501    82   502    73  504 1000.  505 1000. 507   27  508   27  510  3
4   1   511  3      512 38     527    6   542    3  557    9  573    06 574    06
4   1   576    1    577    1   579    7   580    7  624    2  625    2  668  1
4   1   683 13      698    7   713    2   732   103 733   103 735  17   736  17
4   1   737  1      752  1    1431  1    2578  1   2579  1    768 28    769 28
4   1   771   04    772    02  774    01  775    02 777 .0022 778 .0054 780 20
4   1   781 60      824    01  839    7   854   105 870 .0026 871 .0037 873 10
4   1   874 30      917    01  932    97  947   105 962    03 963    12 964 60
4   1   979   2     994   6   1009 11    1024  7   1039 11   1054 27   1055220
4   1  1070    03  1085    7  1100  1    1115  8   1145  1   1160  1   1175  9
4   1  1190    2   1205   8   1220  1    1235150   1250    1 1265    8 1280  11
4   1  1295300     1310    16 1311    05 1326    45 1341  11 1356100   1371    024
4   1  1386    2   1401    6  1416  105  9999
4   2  9999
4   3  9999
5   1  1462 56     1463 53    1464 20    1465 60   1466 80   1470  22  1471  11
5   1  1472   32   1474  6    1475  6    1477  7   1478  9   1566  2   1461 67
5   1  9999
5   2  9999
5   3  9999
6   1  1627800     1628800    162915000.1674 4000.1675 45    167620000.1721 8000.
6   1  172235000.1767500      1812250    1857350   9999
6   2  9999
6   3  9999
7   1  1905  9     1906170    1907610    1908  1   1909  1   1910  1   1914    15
7   1  1915    15  1916    15 1917    05 1918    05 1919    05 1920370   1923150
7   1  1924174     1926    04 1927    04 1928    02 1929    02 1930    02 1937 1600.
7   1  1938 5000.1939  2      1940 98    1941120   1984  9   1985279   1986587
7   1  2029112     2044604    2059 66    2060150   2061181   2104500   2105 5000.
7   1  2106 1000.2107 4000.2108650       2279     5492280   -1722281   4542282 26
7   1  2283 20     2284 5000.228527000.236113500.2362 6000.2363 7300.2364    08
7   1  2365    15  2366500    2381400    2517500   2428 22   2474  8   2475 33
7   1  2477 32     2478 45    2480 22    2481 46   2483 1500.2484 1700.2500240
7   1  2516155     9999
7   2  9999
7   3  9999
```

Fig. 1 - Sample Input Deck

Referring to the list of data elements in Appendix A, we see that in the type 1 data input section the values of 30, 90, and 120 hours have been assigned to flying hours/student-training phases 1(non-FIP), 2, and 3, respectively. Non-FIP applies to only phase 1. Index 7, working days/week, has been given as 5. Flying related hours/flying hour, index 26, has been input 1.5. And .5 is the value assigned to academic and officer training related hours/academic and officer training hours, index 28.

Type 2 inputs in this sample deck are straightforward. Data for five sources have been entered. For example, the value assigned to index 39, the student attrition rate--source 2, phase 1 is .06.

In the type 3 input section, a "1" has been assigned to index 56, indicating that phase 1 is a contracted phase. Phases 2 and 3 are not contracted phases since indices 57 and 58 do not appear. The T array is initially set to zero; hence, any data element not entered retains a zero value.

The only information entered is for base 1 because only one base is being considered in this example. Further, no information is entered for phase 1 since it is a contracted phase.

In the type 4 section, as in the type 3 section, only information about one base and its phases 2 and 3 is entered.

The type 6 inputs are straightforward. For example, family housing units in the first year, base 1, index 1857, have been assigned the value 350.

As stated previously, some of the type 7 data elements are entered in thousands. For example, the input value for index 1905, aircraft first unit cost, phase 1, is 9, whereas its actual value is 9000. Appendix A specifies the data elements that are to be input in thousands.

V. OUTPUT DESCRIPTION

The program output may be in one of two forms. The first, and the one in which the user will most often be interested, consists of 11 tables of information as follows:

Student loads
Base capabilities
UPT program
Manpower
Aircraft
Simulators
Costs by base (in thousands of dollars)
Costs (in thousands of dollars) not assignable to base
Costs by phase (in thousands of dollars)
Costs (in thousands of dollars), not assignable to phase
Cost summary (in thousands of dollars)

For this output, both INDC and INDCC on the input deck control card must be set to zero, "0."

The second form of output provides a printout of the values of all program variables including those provided in the 11 tables listed above. This option has been included for those who may be interested in complete information, i.e., in detail beyond that included in the formal output. For this greater output detail, both INDC and INDCC must be set to "1" on the input deck control card.

Since there is no formal output table for facilities, it is possible to have only the program variables associated with facilities printed in addition to the formal tables. To do this, set INDC = 0 and INDCC = 1 on the control card in the input deck.

Figures 2-14 illustrate the formal output tables.

```
     UNDERGRADUATE PILOT TRAINING CAPABILITY SUMMARY


                                     1970      1971      1972
MAXIMUM LOAD
     MAXIMUM STUDENT LOAD            450.      450.      450.
REQUIRED LOAD
     ACTUAL STUDENT LOAD             393.      393.      393.
     SURGE STUDENT LOAD               30.       30.       30.
     ACTUAL PLUS SURGE LOAD          423.      423.      423.
```

Fig. 2—First page of output, showing UPT student load capacity in summary for all bases

```
                UNDERGRADUATE PILOT TRAINING BASE CAPABILITY
                           AIR FORCE BASE  1

                                               1970      1971      1972
PHASE 1

  RUNWAYS
      RUNWAYS AVAILABLE                          0.        0.        0.
      MINIMUM EFFECTIVE LAUNCH INTERVAL          0.0       0.0       0.0

  AIRSPACE
      AIRSPACES AVAILABLE                        0.        0.        0.
      MINIMUM EFFECTIVE LAUNCH INTERVAL          0.0       0.0       0.0

  STUDENT LOAD
      MAXIMUM PHASE LOAD                         0.        0.        0.
      MAXIMUM COURSE LOAD SUPPORTABLE            0.        0.        0.

PHASE 2

  RUNWAYS
      RUNWAYS AVAILABLE                          1.        1.        1.
      MINIMUM EFFECTIVE LAUNCH INTERVAL          3.000     3.000     3.000

  AIRSPACE
      AIRSPACES AVAILABLE                       35.       35.       35.
      MINIMUM EFFECTIVE LAUNCH INTERVAL          2.286     2.286     2.286

  STUDENT LOAD
      MAXIMUM PHASE LOAD                       188.      188.      188.
      MAXIMUM COURSE LOAD SUPPORTABLE          498.      498.      498.

PHASE 3

  RUNWAYS
      RUNWAYS AVAILABLE                          1.        1.        1.
      MINIMUM EFFECTIVE LAUNCH INTERVAL          3.000     3.000     3.000

  AIRSPACE
      AIRSPACES AVAILABLE                       30.       30.       30.
      MINIMUM EFFECTIVE LAUNCH INTERVAL          2.500     2.500     2.500

  STUDENT LOAD
      MAXIMUM PHASE LOAD                       206.      206.      206.
      MAXIMUM COURSE LOAD SUPPORTABLE          450.      450.      450.

COURSE

  MAXIMUM STUDENT LOAD                         450.      450.      450.
  ACTUAL STUDENT LOAD                          393.      393.      393.
```

Fig. 3—Second page of output showing UPT capacity for AFB 1

```
               UNDERGRADUATE PILOT TRAINING PROGRAM


                                         1970        1971        1972

COURSE SYLLABUS

   FLYING HOURS
      PHASE  1                           30.0        30.0        30.0
      PHASE  2                           90.0        90.0        90.0
      PHASE  3                          120.0       120.0       120.0
      TOTAL                             240.0       240.0       240.0

   SIMULATOR HOURS
      PHASE  1                            0.0         0.0         0.0
      PHASE  2                           18.0        18.0        18.0
      PHASE  3                           24.0        24.0        24.0
      TOTAL                              42.0        42.0        42.0

   ACADEMIC TRAINING HOURS
      PHASE  1                           62.0        62.0        62.0
      PHASE  2                          147.0       147.0       147.0
      PHASE  3                           90.0        90.0        90.0
      TOTAL                             299.0       299.0       299.0

   OFFICER TRAINING HOURS
      PHASE  1                           38.0        38.0        38.0
      PHASE  2                           47.0        47.0        47.0
      PHASE  3                           90.0        90.0        90.0
      TOTAL                             175.0       175.0       175.0

COURSE DURATION

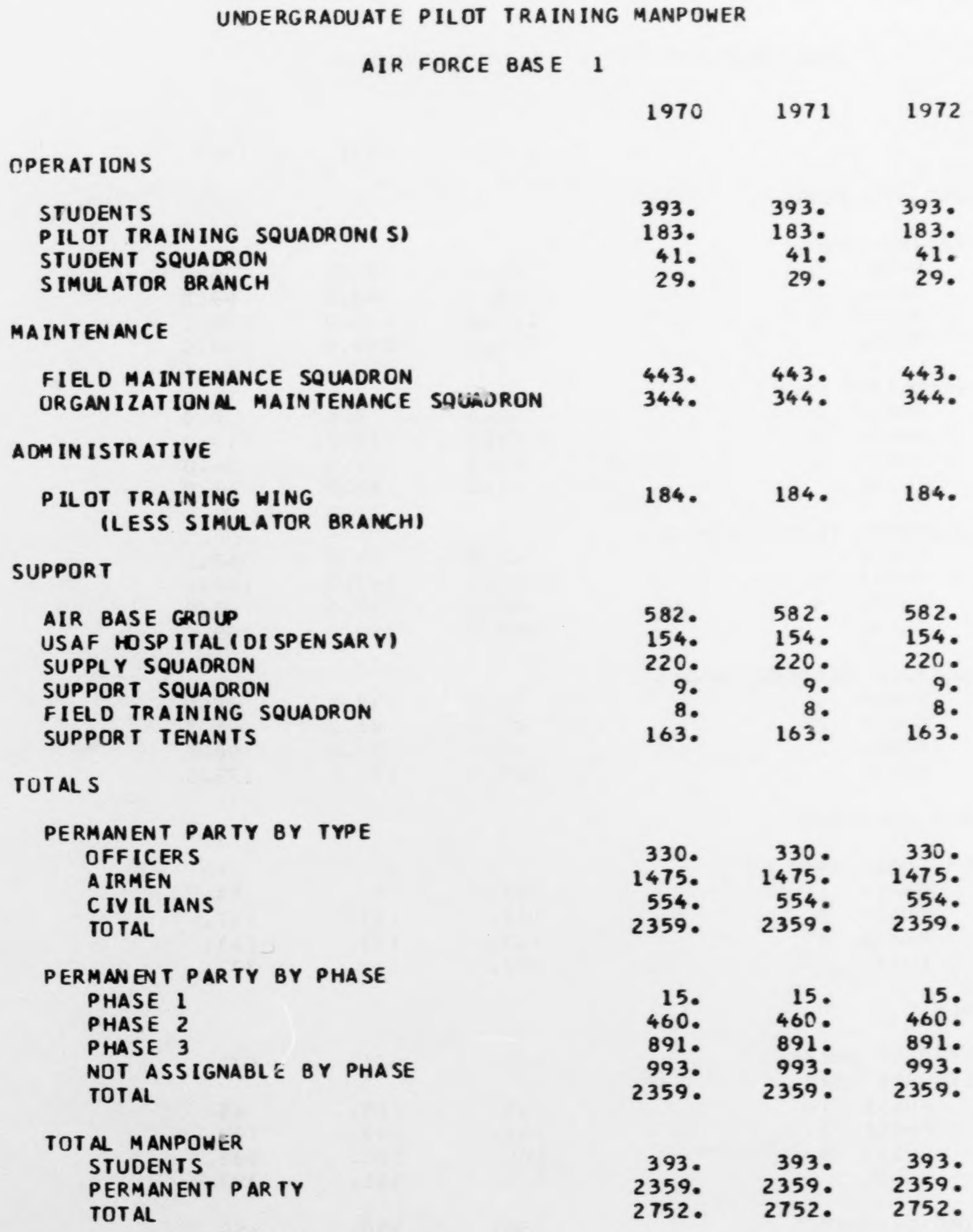
   CALENDAR DAYS
      PHASE  1                           53.         53.         53.
      PHASE  2                          137.        137.        137.
      PHASE  3                          183.        183.        183.
      TOTAL                             372.        372.        372.

STUDENTS

   STUDENT ENTRIES                      471.        471.        471.
   STUDENT LOAD
      PHASE  1                           65.         65.         65.
      PHASE  2                          149.        149.        149.
      PHASE  3                          180.        180.        180.
      TOTAL                             393.        393.        393.

   UPT GRADUATES                        350.        350.        350.
```

Fig.4—Third page of output, showing UPT syllabus, course duration and numbers of students for all bases, by training phase



```
                    UNDERGRADUATE PILOT TRAINING MANPOWER

                             AIR FORCE BASE  1

                                              1970      1971      1972

OPERATIONS

  STUDENTS                                    393.      393.      393.
  PILOT TRAINING SQUADRON(S)                  183.      183.      183.
  STUDENT SQUADRON                             41.       41.       41.
  SIMULATOR BRANCH                             29.       29.       29.

MAINTENANCE

  FIELD MAINTENANCE SQUADRON                  443.      443.      443.
  ORGANIZATIONAL MAINTENANCE SQUADRON         344.      344.      344.

ADMINISTRATIVE

  PILOT TRAINING WING                         184.      184.      184.
      (LESS SIMULATOR BRANCH)

SUPPORT

  AIR BASE GROUP                              582.      582.      582.
  USAF HOSPITAL(DISPENSARY)                   154.      154.      154.
  SUPPLY SQUADRON                             220.      220.      220.
  SUPPORT SQUADRON                              9.        9.        9.
  FIELD TRAINING SQUADRON                       8.        8.        8.
  SUPPORT TENANTS                             163.      163.      163.

TOTALS

  PERMANENT PARTY BY TYPE
     OFFICERS                                 330.      330.      330.
     AIRMEN                                  1475.     1475.     1475.
     CIVILIANS                                554.      554.      554.
     TOTAL                                   2359.     2359.     2359.

  PERMANENT PARTY BY PHASE
     PHASE 1                                   15.       15.       15.
     PHASE 2                                  460.      460.      460.
     PHASE 3                                  891.      891.      891.
     NOT ASSIGNABLE BY PHASE                  993.      993.      993.
     TOTAL                                   2359.     2359.     2359.

  TOTAL MANPOWER
     STUDENTS                                 393.      393.      393.
     PERMANENT PARTY                         2359.     2359.     2359.
     TOTAL                                   2752.     2752.     2752.
```

Fig.5—Fourth page of output showing UPT manpower requirements for AFB 1

```
                UNDERGRADUATE PILOT TRAINING AIRCRAFT


                                            1970        1971        1972

REQUIREMENT
     PHASE 1                                14.9        14.9        14.9
     PHASE 2                                58.7        58.7        58.7
     PHASE 3                                73.9        73.9        73.9

INVENTORY (BEGINNING OF YEAR)
     PHASE 1                                20.0        19.7        19.5
     PHASE 2                                60.0        59.6        59.1
     PHASE 3                                80.0        78.5        77.0

ADDITIONS BY USER (DURING YEAR)
     PHASE 1                                 0.0         0.0         0.0
     PHASE 2                                 0.0         0.0         0.0
     PHASE 3                                 0.0         0.0         0.0

ADDITIONS BY MODEL (DURING YEAR)
     PHASE 1                                 0.0         0.0         0.0
     PHASE 2                                 0.0         0.0         0.0
     PHASE 3                                 0.0         0.0         0.0

LOSSES FROM ATTRITION
        (DURING YEAR)
     PHASE 1                                 0.3         0.3         0.3
     PHASE 2                                 0.4         0.4         0.4
     PHASE 3                                 1.5         1.5         1.5
```

Fig. 6—Fifth page of output showing UPT aircraft requirements for all bases

```
              UNDERGRADUATE PILOT TRAINING SIMULATORS

                          AIR FORCE BASE  1

                                    1970        1971        1972

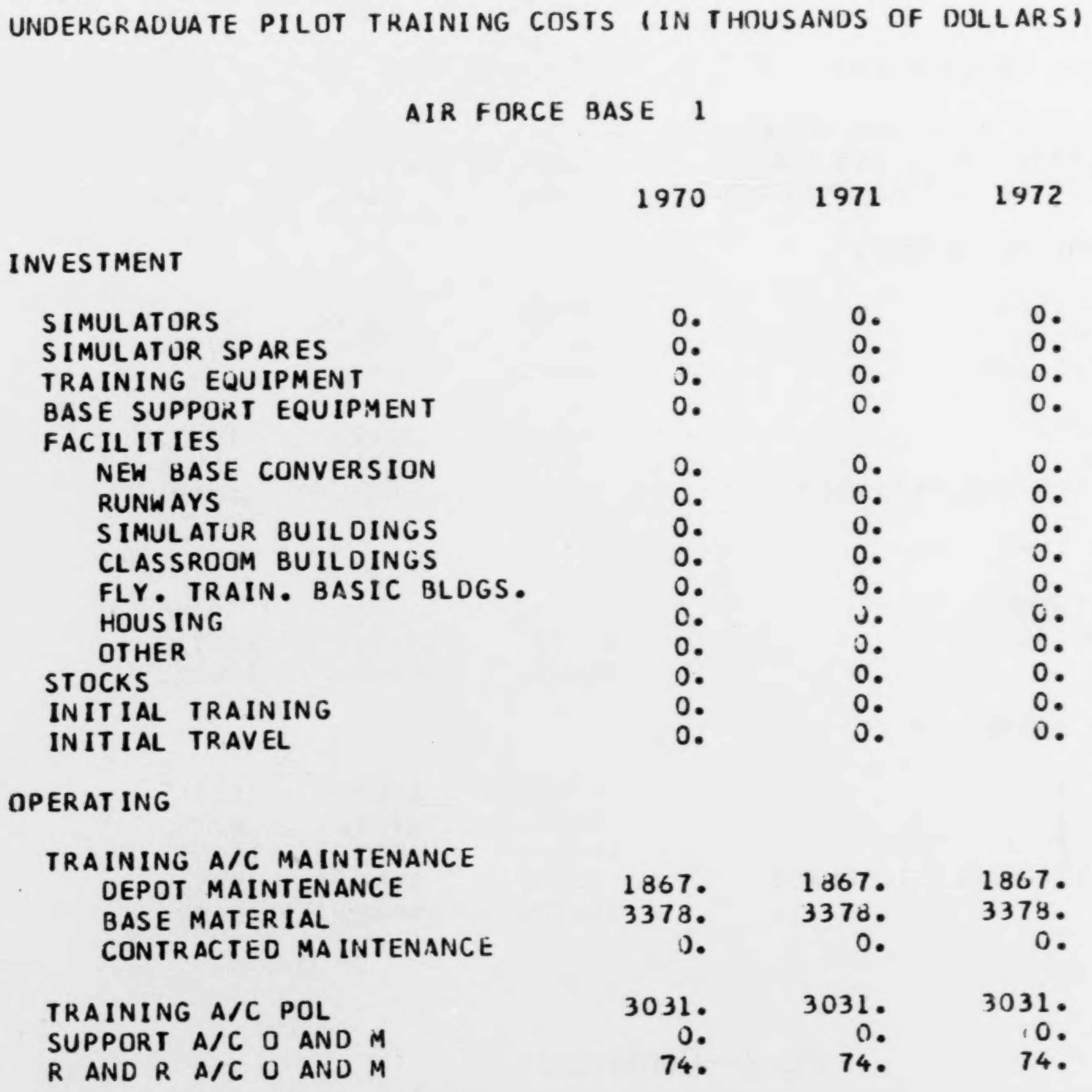
REQUIREMENT
    PHASE 1                          0.0         0.0         0.0
    PHASE 2                          4.8         4.8         4.8
    PHASE 3                          5.8         5.8         5.8

INVENTORY (BEGINNING OF YEAR)
    PHASE 1                          0.0         0.0         0.0
    PHASE 2                          7.0         7.0         7.0
    PHASE 3                          9.0         9.0         9.0

ADDITIONS BY USER (DURING YEAR)
    PHASE 1                          0.0         0.0         0.0
    PHASE 2                          0.0         0.0         0.0
    PHASE 3                          0.0         0.0         0.0

ADDITIONS BY MODEL (DURING YEAR)
    PHASE 1                          0.0         0.0         0.0
    PHASE 2                          0.0         0.0         0.0
    PHASE 3                          0.0         0.0         0.0
```

Fig. 7—Sixth page of output showing UPT simulator requirements for AFB 1



```
UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)

                          AIR FORCE BASE  1

                                        1970        1971        1972

INVESTMENT

  SIMULATORS                              0.          0.          0.
  SIMULATOR SPARES                        0.          0.          0.
  TRAINING EQUIPMENT                      0.          0.          0.
  BASE SUPPORT EQUIPMENT                  0.          0.          0.
  FACILITIES
     NEW BASE CONVERSION                  0.          0.          0.
     RUNWAYS                              0.          0.          0.
     SIMULATOR BUILDINGS                  0.          0.          0.
     CLASSROOM BUILDINGS                  0.          0.          0.
     FLY. TRAIN. BASIC BLDGS.             0.          0.          0.
     HOUSING                              0.          0.          0.
     OTHER                                0.          0.          0.
  STOCKS                                  0.          0.          0.
  INITIAL TRAINING                        0.          0.          0.
  INITIAL TRAVEL                          0.          0.          0.

OPERATING

  TRAINING A/C MAINTENANCE
     DEPOT MAINTENANCE                 1867.       1867.       1867.
     BASE MATERIAL                     3378.       3378.       3378.
     CONTRACTED MAINTENANCE               0.          0.          0.

  TRAINING A/C POL                     3031.       3031.       3031.
  SUPPORT A/C O AND M                     0.          0.          0.
  R AND R A/C O AND M                    74.         74.         74.
```

Fig. 8—Seventh and eighth pages of output showing UPT costs for AFB 1

```
                                      1970       1971       1972

OPERATING (CONTINUED)

  SIMULATOR MAT. AND SERVS.            26.        26.        26.
  FACILITIES MAT. AND SERVS.         1379.      1379.      1379.
  CONTRACTED FLYING TRAINING          264.       264.       264.

  PAY AND ALLOWANCES

     OFFICERS                        9760.      9760.      9760.
     AIRMEN                          8853.      8853.      8853.
     CIVILIANS                       4043.      4043.      4043.

  TRAINING                           1017.      1017.      1017.
  TRAVEL                              681.       681.       681.
  SUPPLIES AND SERVICES              1099.      1099.      1099.

COST BY TYPE

  INVESTMENT                            0.         0.         0.
  OPERATING                         35471.     35471.     35471.
  TOTAL                             35472.     35472.     35472.

COST BY PHASE

  PHASE 1                            1315.      1315.      1315.
  PHASE 2                            8773.      8773.      8773.
  PHASE 3                           16027.     16027.     16027.
  NOT ASSIGNABLE TO PHASE            9356.      9356.      9356.
  TOTAL                             35472.     35472.     35472.
```

Fig. 8—Continued

```
UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)
                    NOT ASSIGNABLE TO BASE


                                    1970        1971        1972

RDT AND E                             0.          0.          0.

INVESTMENT

  TRAINING AIRCRAFT                   0.          0.          0.
  SUPPORT AIRCRAFT                    0.          0.          0.
  RESCUE AND RECOVERY A/C             0.          0.          0.
  TRAINING A/C SPARES                 0.          0.          0.
  AEROSPACE GROUND EQUIP              0.          0.          0.

OPERATING

  RECURRING MODIFICATIONS             0.          0.          0.

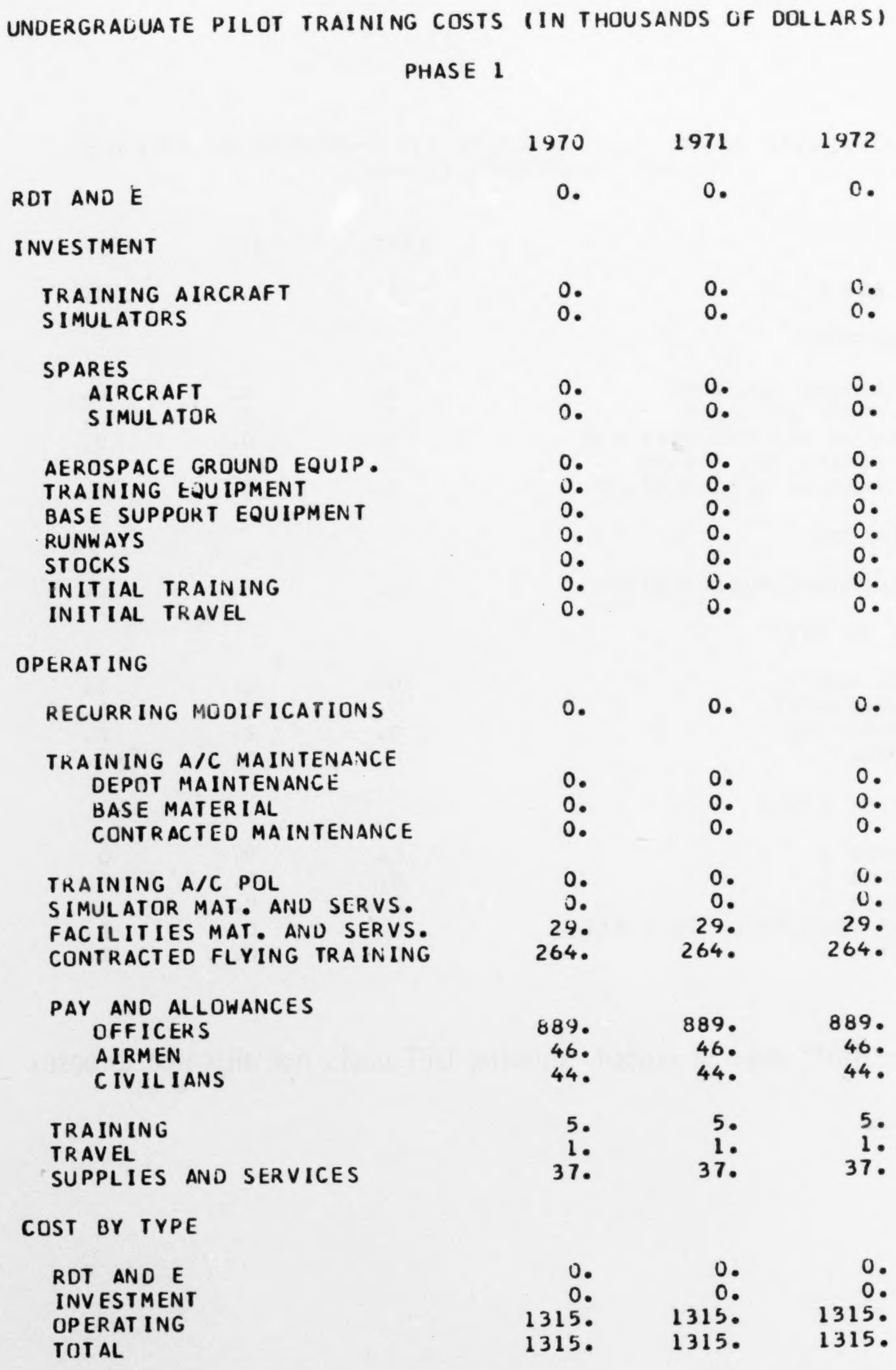
COST BY TYPE

  RDT AND E                           0.          0.          0.
  INVESTMENT                          0.          0.          0.
  OPERATING                           0.          0.          0.
  TOTAL                               0.          0.          0.

COST BY PHASE

  PHASE 1                             0.          0.          0.
  PHASE 2                             0.          0.          0.
  PHASE 3                             0.          0.          0.
  NOT ASSIGNABLE TO PHASE             0.          0.          0.
  TOTAL                               0.          0.          0.
```

Fig. 9—Ninth page of output, showing UPT costs not allocated to bases



```
UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)

                         PHASE 1

                                        1970       1971       1972

RDT AND E                                 0.         0.         0.

INVESTMENT

  TRAINING AIRCRAFT                       0.         0.         0.
  SIMULATORS                              0.         0.         0.

  SPARES
     AIRCRAFT                             0.         0.         0.
     SIMULATOR                            0.         0.         0.

  AEROSPACE GROUND EQUIP.                 0.         0.         0.
  TRAINING EQUIPMENT                      0.         0.         0.
  BASE SUPPORT EQUIPMENT                  0.         0.         0.
  RUNWAYS                                 0.         0.         0.
  STOCKS                                  0.         0.         0.
  INITIAL TRAINING                        0.         0.         0.
  INITIAL TRAVEL                          0.         0.         0.

OPERATING

  RECURRING MODIFICATIONS                 0.         0.         0.

  TRAINING A/C MAINTENANCE
     DEPOT MAINTENANCE                    0.         0.         0.
     BASE MATERIAL                        0.         0.         0.
     CONTRACTED MAINTENANCE               0.         0.         0.

  TRAINING A/C POL                        0.         0.         0.
  SIMULATOR MAT. AND SERVS.               0.         0.         0.
  FACILITIES MAT. AND SERVS.             29.        29.        29.
  CONTRACTED FLYING TRAINING            264.       264.       264.

  PAY AND ALLOWANCES
     OFFICERS                           889.       889.       889.
     AIRMEN                              46.        46.        46.
     CIVILIANS                           44.        44.        44.

  TRAINING                                5.         5.         5.
  TRAVEL                                  1.         1.         1.
  SUPPLIES AND SERVICES                  37.        37.        37.

COST BY TYPE

  RDT AND E                               0.         0.         0.
  INVESTMENT                              0.         0.         0.
  OPERATING                            1315.      1315.      1315.
  TOTAL                                1315.      1315.      1315.
```

Fig. 10—Tenth page of output, showing UPT costs for training phase I

```
UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)

                          PHASE 2


                                      1970      1971      1972

RDT AND E                               0.        0.        0.

INVESTMENT

   TRAINING AIRCRAFT                    0.        0.        0.
   SIMULATORS                           0.        0.        0.

   SPARES
      AIRCRAFT                          0.        0.        0.
      SIMULATOR                         0.        0.        0.

   AEROSPACE GROUND EQUIP.              0.        0.        0.
   TRAINING EQUIPMENT                   0.        0.        0.
   BASE SUPPORT EQUIPMENT               0.        0.        0.
   RUNWAYS                              0.        0.        0.
   STOCKS                               0.        0.        0.
   INITIAL TRAINING                     0.        0.        0.
   INITIAL TRAVEL                       0.        0.        0.

OPERATING

   RECURRING MODIFICATIONS              0.        0.        0.

   TRAINING A/C MAINTENANCE
      DEPOT MAINTENANCE               315.      315.      315.
      BASE MATERIAL                  1261.     1261.     1261.
      CONTRACTED MAINTENANCE            0.        0.        0.

   TRAINING A/C POL                   867.      867.      867.
   SIMULATOR MAT. AND SERVS.           11.       11.       11.
   FACILITIES MAT. AND SERVS.         210.      210.      210.
   CONTRACTED FLYING TRAINING           0.        0.        0.

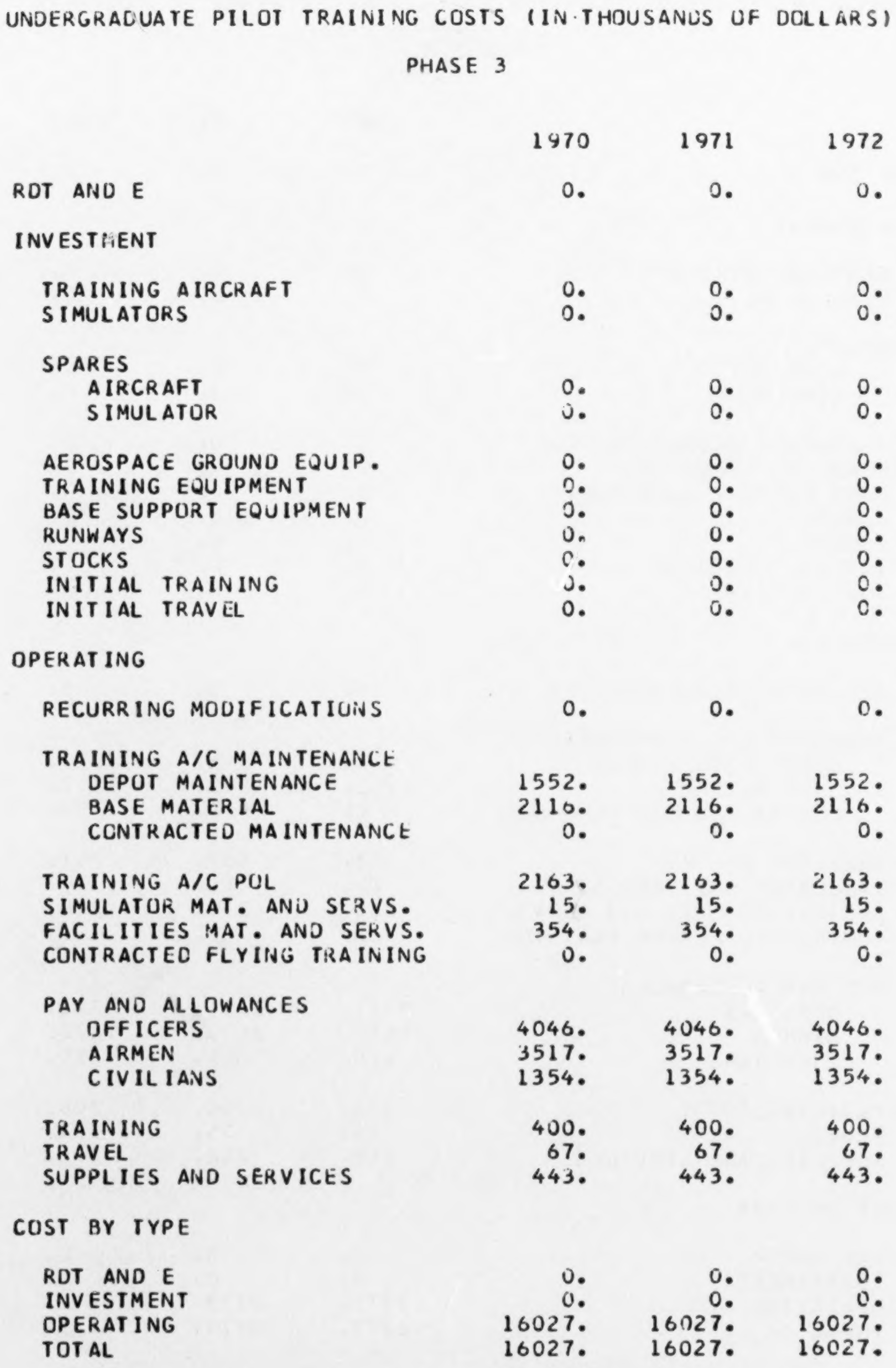
   PAY AND ALLOWANCES
      OFFICERS                       3321.     3321.     3321.
      AIRMEN                         1670.     1670.     1670.
      CIVILIANS                       615.      615.      615.

   TRAINING                           206.      206.      206.
   TRAVEL                              35.       35.       35.
   SUPPLIES AND SERVICES              262.      262.      262.

COST BY TYPE

   RDT AND E                            0.        0.        0.
   INVESTMENT                           0.        0.        0.
   OPERATING                         8773.     8773.     8773.
   TOTAL                             8773.     8773.     8773.
```

Fig. 11—Eleventh page of output, showing UPT costs for training phase II



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UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)

                             PHASE 3

                                    1970        1971        1972

RDT AND E                             0.          0.          0.

INVESTMENT

  TRAINING AIRCRAFT                   0.          0.          0.
  SIMULATORS                          0.          0.          0.

  SPARES
     AIRCRAFT                         0.          0.          0.
     SIMULATOR                        0.          0.          0.

  AEROSPACE GROUND EQUIP.             0.          0.          0.
  TRAINING EQUIPMENT                  0.          0.          0.
  BASE SUPPORT EQUIPMENT              0.          0.          0.
  RUNWAYS                             0.          0.          0.
  STOCKS                              0.          0.          0.
  INITIAL TRAINING                    0.          0.          0.
  INITIAL TRAVEL                      0.          0.          0.

OPERATING

  RECURRING MODIFICATIONS             0.          0.          0.

  TRAINING A/C MAINTENANCE
     DEPOT MAINTENANCE             1552.       1552.       1552.
     BASE MATERIAL                 2116.       2116.       2116.
     CONTRACTED MAINTENANCE           0.          0.          0.

  TRAINING A/C POL                 2163.       2163.       2163.
  SIMULATOR MAT. AND SERVS.          15.         15.         15.
  FACILITIES MAT. AND SERVS.        354.        354.        354.
  CONTRACTED FLYING TRAINING          0.          0.          0.

  PAY AND ALLOWANCES
     OFFICERS                      4046.       4046.       4046.
     AIRMEN                        3517.       3517.       3517.
     CIVILIANS                     1354.       1354.       1354.

  TRAINING                          400.        400.        400.
  TRAVEL                             67.         67.         67.
  SUPPLIES AND SERVICES             443.        443.        443.

COST BY TYPE

  RDT AND E                           0.          0.          0.
  INVESTMENT                          0.          0.          0.
  OPERATING                       16027.      16027.      16027.
  TOTAL                           16027.      16027.      16027.
```

Fig. 12—Twelfth page of output, showing UPT costs for training phase III

```
UNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS OF DOLLARS)
                  NOT ASSIGNABLE TO PHASE

                                       1970      1971      1972

INVESTMENT

   SUPPORT AIRCRAFT                      0.        0.        0.
   RESCUE AND RECOVERY A/C               0.        0.        0.
   BASE SUPPORT EQUIPMENT                0.        0.        0.

   FACILITIES
      NEW BASE CONVERSION                0.        0.        0.
      SIMULATOR BUILDINGS                0.        0.        0.
      CLASSROOM BUILDINGS                0.        0.        0.
      FLY. TRAIN. BASIC BLDGS.           0.        0.        0.
      HOUSING                            0.        0.        0.
      OTHER                              0.        0.        0.

   STOCKS                                0.        0.        0.
   INITIAL TRAINING                      0.        0.        0.
   INITIAL TRAVEL                        0.        0.        0.

OPERATING

   SUPPORT A/C O AND M                   0.        0.        0.
   R AND R A/C O AND M                  74.       74.       74.
   FACILITIES MAT. AND SERVS.          786.      786.      786.

   PAY AND ALLOWANCES
      OFFICERS                        1503.     1503.     1503.
      AIRMEN                          3621.     3621.     3621.
      CIVILIANS                       2029.     2029.     2029.

   TRAINING                            407.      407.      407.
   TRAVEL                              578.      578.      578.
   SUPPLIES AND SERVICES               357.      357.      357.

COST BY TYPE

   INVESTMENT                            0.        0.        0.
   OPERATING                          9356.     9356.     9356.
   TOTAL                              9356.     9356.     9356.
```

Fig. 13—Thirteenth page of output, showing UPT costs not allocated to training phases

```
              UNDERGRADUATE PILOT TRAINING COST SUMMARY
                     (IN THOUSANDS OF DOLLARS)

                                            1970        1971        1972

COST BY TYPE

   RDT AND E                                  0.          0.          0.
   INVESTMENT                                 0.          0.          0.
   OPERATING                              35472.      35472.      35472.
   TOTAL                                  35472.      35472.      35472.

COST BY PHASE

   PHASE 1                                 1315.       1315.       1315.
   PHASE 2                                 8773.       8773.       8773.
   PHASE 3                                16027.      16027.      16027.
   NOT ASSIGNABLE TO PHASE                 9356.       9356.       9356.
   TOTAL                                  35472.      35472.      35472.

COST BY BASE

   BASE  1                                35472.      35472.      35472.
   NOT ASSIGNABLE TO BASE                     0.          0.          0.
   TOTAL                                  35472.      35472.      35472.
```

Fig. 14—Fourteenth page of output, showing UPT costs in summary for all bases

Appendix A

INPUT DATA ELEMENTS

TYPE 1

1	FLYING HOURS/STUDENT - PHASE 1 (NON FIP)	A1
2	FLYING HOURS/STUDENT - PHASE 2	
3	FLYING HOURS/STUDENT - PHASE 3	
4	FLYING HOURS/WORKING DAY/STUDENT - PHASE 1	A2
5	FLYING HOURS/WORKING DAY/STUDENT - PHASE 2	
6	FLYING HOURS/WORKING DAY/STUDENT - PHASE 3	
7	WORKING DAYS/WEEK	A3
8	HOLIDAYS/YEAR	A4
9	PHASE LENGTH THRUPUT DESIGNATOR (1 = THRUPUT)	A5
10	CALENDAR DAYS FOR FLYING (THRUPUT) - PHASE 1	A6
11	CALENDAR DAYS FOR FLYING (THRUPUT) - PHASE 2	
12	CALENDAR DAYS FOR FLYING (THRUPUT) - PHASE 3	
13	NUMBER OF PHASES OF UPT	A7
14	NUMBER OF ACADEMIC DAYS - PHASE 1	A9
15	NUMBER OF ACADEMIC DAYS - PHASE 2	
16	NUMBER OF ACADEMIC DAYS - PHASE 3	
17	ACADEMIC TRAINING HOURS/STUDENT - PHASE 1	A43
18	ACADEMIC TRAINING HOURS/STUDENT - PHASE 2	
19	ACADEMIC TRAINING HOURS/STUDENT - PHASE 3	
20	OFFICER TRAINING HOURS/STUDENT - PHASE 1	A44
21	OFFICER TRAINING HOURS/STUDENT - PHASE 2	
22	OFFICER TRAINING HOURS/STUDENT - PHASE 3	
23	SIMULATOR HOURS/STUDENT - PHASE 1	A113
24	SIMULATOR HOURS/STUDENT - PHASE 2	
25	SIMULATOR HOURS/STUDENT - PHASE 3	
26	FLYING RELATED HOURS/FLYING HOUR	A220
27	SIMULATOR RELATED HOURS/SIMULATOR HOUR	A221
28	ACAD. AND OFFICER TRAINING RELATED HRS./ACAD. + OFF. TRAINING HRS.	A222
29	MAXIMUM TOTAL HOURS/TRAINING DAY/STUDENT	A223
30	GRADUATE REQUIREMENT	A10

TYPE 2

31	FIXED ENTRIES - SOURCE 1 (ACADEMY)	A11
32	FIXED ENTRIES - SOURCE 2 (ROTC)	
33	FIXED ENTRIES - SOURCE 3 (RATED)	
34	FIXED ENTRIES - SOURCE 4 (NON-RATED)	
35	FIXED ENTRIES - SOURCE 5 (OTHER)	
36	STUDENT ATTRITION RATE - SOURCE 1, PHASE 1	A12
37	STUDENT ATTRITION RATE - SOURCE 1, PHASE 2	
38	STUDENT ATTRITION RATE - SOURCE 1, PHASE 3	
39	STUDENT ATTRITION RATE - SOURCE 2, PHASE 1	
40	STUDENT ATTRITION RATE - SOURCE 2, PHASE 2	
41	STUDENT ATTRITION RATE - SOURCE 2, PHASE 3	
42	STUDENT ATTRITION RATE - SOURCE 3, PHASE 1	
43	STUDENT ATTRITION RATE - SOURCE 3, PHASE 2	
44	STUDENT ATTRITION RATE - SOURCE 3, PHASE 3	
45	STUDENT ATTRITION RATE - SOURCE 4, PHASE 1	
46	STUDENT ATTRITION RATE - SOURCE 4, PHASE 2	
47	STUDENT ATTRITION RATE - SOURCE 4, PHASE 3	
48	STUDENT ATTRITION RATE - SOURCE 5, PHASE 1	
49	STUDENT ATTRITION RATE - SOURCE 5, PHASE 2	
50	STUDENT ATTRITION RATE - SOURCE 5, PHASE 3	
51	OTS STUDENT ATTRITION - PHASE 1	A13
52	OTS STUDENT ATTRITION - PHASE 2	
53	OTS STUDENT ATTRITION - PHASE 3	

54	NUMBER OF FIXED SOURCES OF STUDENTS	A14
55	SURGE STUDENT LOAD CAPACITY	A224

TYPE 3

56	CONTRACT DESIGNATOR (1 = CONTRACTED PHASE) - PHASE 1	A15
57	CONTRACT DESIGNATOR (1 = CONTRACTED PHASE) - PHASE 2	
58	CONTRACT DESIGNATOR (1 = CONTRACTED PHASE) - PHASE 3	
59	BEGINNING RUNWAYS - BASE 1, PHASE 1	A17
60	BEGINNING RUNWAYS - BASE 1, PHASE 2	
61	BEGINNING RUNWAYS - BASE 1, PHASE 3	
62	BEGINNING RUNWAYS - BASE 2, PHASE 1	
63	BEGINNING RUNWAYS - BASE 2, PHASE 2	
64	BEGINNING RUNWAYS - BASE 2, PHASE 3	
65	BEGINNING RUNWAYS - BASE 3, PHASE 1	
66	BEGINNING RUNWAYS - BASE 3, PHASE 2	
67	BEGINNING RUNWAYS - BASE 3, PHASE 3	
68	BEGINNING RUNWAYS - BASE 4, PHASE 1	
69	BEGINNING RUNWAYS - BASE 4, PHASE 2	
70	BEGINNING RUNWAYS - BASE 4, PHASE 3	
71	BEGINNING RUNWAYS - BASE 5, PHASE 1	
72	BEGINNING RUNWAYS - BASE 5, PHASE 2	
73	BEGINNING RUNWAYS - BASE 5, PHASE 3	
74	BEGINNING RUNWAYS - BASE 6, PHASE 1	
75	BEGINNING RUNWAYS - BASE 6, PHASE 2	
76	BEGINNING RUNWAYS - BASE 6, PHASE 3	
77	BEGINNING RUNWAYS - BASE 7, PHASE 1	
78	BEGINNING RUNWAYS - BASE 7, PHASE 2	
79	BEGINNING RUNWAYS - BASE 7, PHASE 3	
80	BEGINNING RUNWAYS - BASE 8, PHASE 1	
81	BEGINNING RUNWAYS - BASE 8, PHASE 2	
82	BEGINNING RUNWAYS - BASE 8, PHASE 3	
83	BEGINNING RUNWAYS - BASE 9, PHASE 1	
84	BEGINNING RUNWAYS - BASE 9, PHASE 2	
85	BEGINNING RUNWAYS - BASE 9, PHASE 3	
86	BEGINNING RUNWAYS - BASE 10, PHASE 1	
87	BEGINNING RUNWAYS - BASE 10, PHASE 2	
88	BEGINNING RUNWAYS - BASE 10, PHASE 3	
89	BEGINNING RUNWAYS - BASE 11, PHASE 1	
90	BEGINNING RUNWAYS - BASE 11, PHASE 2	
91	BEGINNING RUNWAYS - BASE 11, PHASE 3	
92	BEGINNING RUNWAYS - BASE 12, PHASE 1	
93	BEGINNING RUNWAYS - BASE 12, PHASE 2	
94	BEGINNING RUNWAYS - BASE 12, PHASE 3	
95	BEGINNING RUNWAYS - BASE 13, PHASE 1	
96	BEGINNING RUNWAYS - BASE 13, PHASE 2	
97	BEGINNING RUNWAYS - BASE 13, PHASE 3	
98	BEGINNING RUNWAYS - BASE 14, PHASE 1	
99	BEGINNING RUNWAYS - BASE 14, PHASE 2	
100	BEGINNING RUNWAYS - BASE 14, PHASE 3	
101	BEGINNING RUNWAYS - BASE 15, PHASE 1	
102	BEGINNING RUNWAYS - BASE 15, PHASE 2	
103	BEGINNING RUNWAYS - BASE 15, PHASE 3	
104	ADDITIONAL RUNWAYS THRUPUT - BASE 1, PHASE 1	A18
105	ADDITIONAL RUNWAYS THRUPUT - BASE 1, PHASE 2	
106	ADDITIONAL RUNWAYS THRUPUT - BASE 1, PHASE 3	
107	ADDITIONAL RUNWAYS THRUPUT - BASE 2, PHASE 1	
108	ADDITIONAL RUNWAYS THRUPUT - BASE 2, PHASE 2	
109	ADDITIONAL RUNWAYS THRUPUT - BASE 2, PHASE 3	

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110    ADDITIONAL RUNWAYS THRUPUT - BASE  3, PHASE 1
111    ADDITIONAL RUNWAYS THRUPUT - BASE  3, PHASE 2
112    ADDITIONAL RUNWAYS THRUPUT - BASE  3, PHASE 3
113    ADDITIONAL RUNWAYS THRUPUT - BASE  4, PHASE 1
114    ADDITIONAL RUNWAYS THRUPUT - BASE  4, PHASE 2
115    ADDITIONAL RUNWAYS THRUPUT - BASE  4, PHASE 3
116    ADDITIONAL RUNWAYS THRUPUT - BASE  5, PHASE 1
117    ADDITIONAL RUNWAYS THRUPUT - BASE  5, PHASE 2
118    ADDITIONAL RUNWAYS THRUPUT - BASE  5, PHASE 3
119    ADDITIONAL RUNWAYS THRUPUT - BASE  6, PHASE 1
120    ADDITIONAL RUNWAYS THRUPUT - BASE  6, PHASE 2
121    ADDITIONAL RUNWAYS THRUPUT - BASE  6, PHASE 3
122    ADDITIONAL RUNWAYS THRUPUT - BASE  7, PHASE 1
123    ADDITIONAL RUNWAYS THRUPUT - BASE  7, PHASE 2
124    ADDITIONAL RUNWAYS THRUPUT - BASE  7, PHASE 3
125    ADDITIONAL RUNWAYS THRUPUT - BASE  8, PHASE 1
126    ADDITIONAL RUNWAYS THRUPUT - BASE  8, PHASE 2
127    ADDITIONAL RUNWAYS THRUPUT - BASE  8, PHASE 3
128    ADDITIONAL RUNWAYS THRUPUT - BASE  9, PHASE 1
129    ADDITIONAL RUNWAYS THRUPUT - BASE  9, PHASE 2
130    ADDITIONAL RUNWAYS THRUPUT - BASE  9, PHASE 3
131    ADDITIONAL RUNWAYS THRUPUT - BASE 10, PHASE 1
132    ADDITIONAL RUNWAYS THRUPUT - BASE 10, PHASE 2
133    ADDITIONAL RUNWAYS THRUPUT - BASE 10, PHASE 3
134    ADDITIONAL RUNWAYS THRUPUT - BASE 11, PHASE 1
135    ADDITIONAL RUNWAYS THRUPUT - BASE 11, PHASE 2
136    ADDITIONAL RUNWAYS THRUPUT - BASE 11, PHASE 3
137    ADDITIONAL RUNWAYS THRUPUT - BASE 12, PHASE 1
138    ADDITIONAL RUNWAYS THRUPUT - BASE 12, PHASE 2
139    ADDITIONAL RUNWAYS THRUPUT - BASE 12, PHASE 3
140    ADDITIONAL RUNWAYS THRUPUT - BASE 13, PHASE 1
141    ADDITIONAL RUNWAYS THRUPUT - BASE 13, PHASE 2
142    ADDITIONAL RUNWAYS THRUPUT - BASE 13, PHASE 3
143    ADDITIONAL RUNWAYS THRUPUT - BASE 14, PHASE 1
144    ADDITIONAL RUNWAYS THRUPUT - BASE 14, PHASE 2
145    ADDITIONAL RUNWAYS THRUPUT - BASE 14, PHASE 3
146    ADDITIONAL RUNWAYS THRUPUT - BASE 15, PHASE 1
147    ADDITIONAL RUNWAYS THRUPUT - BASE 15, PHASE 2
148    ADDITIONAL RUNWAYS THRUPUT - BASE 15, PHASE 3
149    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  1, PHASE 1                 A21
150    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  1, PHASE 2
151    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  1, PHASE 3
152    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  2, PHASE 1
153    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  2, PHASE 2
154    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  2, PHASE 3
155    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  3, PHASE 1
156    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  3, PHASE 2
157    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  3, PHASE 3
158    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  4, PHASE 1
159    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  4, PHASE 2
160    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  4, PHASE 3
161    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  5, PHASE 1
162    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  5, PHASE 2
163    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  5, PHASE 3
164    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  6, PHASE 1
165    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  6, PHASE 2
166    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  6, PHASE 3
167    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  7, PHASE 1
168    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  7, PHASE 2
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169    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  7, PHASE 3
170    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  8, PHASE 1
171    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  8, PHASE 2
172    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  8, PHASE 3
173    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  9, PHASE 1
174    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  9, PHASE 2
175    MINIMUM LAUNCH INTERVAL (MIN.) - BASE  9, PHASE 3
176    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 10, PHASE 1
177    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 10, PHASE 2
178    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 10, PHASE 3
179    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 11, PHASE 1
180    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 11, PHASE 2
181    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 11, PHASE 3
182    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 12, PHASE 1
183    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 12, PHASE 2
184    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 12, PHASE 3
185    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 13, PHASE 1
186    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 13, PHASE 2
187    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 13, PHASE 3
188    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 14, PHASE 1
189    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 14, PHASE 2
190    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 14, PHASE 3
191    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 15, PHASE 1
192    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 15, PHASE 2
193    MINIMUM LAUNCH INTERVAL (MIN.) - BASE 15, PHASE 3
194    FLYABLE WEATHER FACTOR - BASE  1, PHASE 1                              A23
195    FLYABLE WEATHER FACTOR - BASE  1, PHASE 2
196    FLYABLE WEATHER FACTOR - BASE  1, PHASE 3
197    FLYABLE WEATHER FACTOR - BASE  2, PHASE 1
198    FLYABLE WEATHER FACTOR - BASE  2, PHASE 2
199    FLYABLE WEATHER FACTOR - BASE  2, PHASE 3
200    FLYABLE WEATHER FACTOR - BASE  3, PHASE 1
201    FLYABLE WEATHER FACTOR - BASE  3, PHASE 2
202    FLYABLE WEATHER FACTOR - BASE  3, PHASE 3
203    FLYABLE WEATHER FACTOR - BASE  4, PHASE 1
204    FLYABLE WEATHER FACTOR - BASE  4, PHASE 2
205    FLYABLE WEATHER FACTOR - BASE  4, PHASE 3
206    FLYABLE WEATHER FACTOR - BASE  5, PHASE 1
207    FLYABLE WEATHER FACTOR - BASE  5, PHASE 2
208    FLYABLE WEATHER FACTOR - BASE  5, PHASE 3
209    FLYABLE WEATHER FACTOR - BASE  6, PHASE 1
210    FLYABLE WEATHER FACTOR - BASE  6, PHASE 2
211    FLYABLE WEATHER FACTOR - BASE  6, PHASE 3
212    FLYABLE WEATHER FACTOR - BASE  7, PHASE 1
213    FLYABLE WEATHER FACTOR - BASE  7, PHASE 2
214    FLYABLE WEATHER FACTOR - BASE  7, PHASE 3
215    FLYABLE WEATHER FACTOR - BASE  8, PHASE 1
216    FLYABLE WEATHER FACTOR - BASE  8, PHASE 2
217    FLYABLE WEATHER FACTOR - BASE  8, PHASE 3
218    FLYABLE WEATHER FACTOR - BASE  9, PHASE 1
219    FLYABLE WEATHER FACTOR - BASE  9, PHASE 2
220    FLYABLE WEATHER FACTOR - BASE  9, PHASE 3
221    FLYABLE WEATHER FACTOR - BASE 10, PHASE 1
222    FLYABLE WEATHER FACTOR - BASE 10, PHASE 2
223    FLYABLE WEATHER FACTOR - BASE 10, PHASE 3
224    FLYABLE WEATHER FACTOR - BASE 11, PHASE 1
225    FLYABLE WEATHER FACTOR - BASE 11, PHASE 2
226    FLYABLE WEATHER FACTOR - BASE 11, PHASE 3
227    FLYABLE WEATHER FACTOR - BASE 12, PHASE 1
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228   FLYABLE WEATHER FACTOR - BASE 12, PHASE 2
229   FLYABLE WEATHER FACTOR - BASE 12, PHASE 3
230   FLYABLE WEATHER FACTOR - BASE 13, PHASE 1
231   FLYABLE WEATHER FACTOR - BASE 13, PHASE 2
232   FLYABLE WEATHER FACTOR - BASE 13, PHASE 3
233   FLYABLE WEATHER FACTOR - BASE 14, PHASE 1
234   FLYABLE WEATHER FACTOR - BASE 14, PHASE 2
235   FLYABLE WEATHER FACTOR - BASE 14, PHASE 3
236   FLYABLE WEATHER FACTOR - BASE 15, PHASE 1
237   FLYABLE WEATHER FACTOR - BASE 15, PHASE 2
238   FLYABLE WEATHER FACTOR - BASE 15, PHASE 3
239   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  1, PHASE 1          A26
240   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  1, PHASE 2
241   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  1, PHASE 3
242   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  2, PHASE 1
243   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  2, PHASE 2
244   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  2, PHASE 3
245   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  3, PHASE 1
246   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  3, PHASE 2
247   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  3, PHASE 3
248   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  4, PHASE 1
249   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  4, PHASE 2
250   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  4, PHASE 3
251   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  5, PHASE 1
252   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  5, PHASE 2
253   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  5, PHASE 3
254   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  6, PHASE 1
255   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  6, PHASE 2
256   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  6, PHASE 3
257   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  7, PHASE 1
258   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  7, PHASE 2
259   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  7, PHASE 3
260   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  8, PHASE 1
261   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  8, PHASE 2
262   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  8, PHASE 3
263   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  9, PHASE 1
264   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  9, PHASE 2
265   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE  9, PHASE 3
266   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 10, PHASE 1
267   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 10, PHASE 2
268   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 10, PHASE 3
269   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 11, PHASE 1
270   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 11, PHASE 2
271   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 11, PHASE 3
272   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 12, PHASE 1
273   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 12, PHASE 2
274   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 12, PHASE 3
275   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 13, PHASE 1
276   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 13, PHASE 2
277   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 13, PHASE 3
278   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 14, PHASE 1
279   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 14, PHASE 2
280   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 14, PHASE 3
281   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 15, PHASE 1
282   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 15, PHASE 2
283   ADJUSTMENT FACTOR FOR SEASONAL VARIATION - BASE 15, PHASE 3
284   BEGINNING FLYING AREAS - BASE  1, PHASE 1                            A28
285   BEGINNING FLYING AREAS - BASE  1, PHASE 2
286   BEGINNING FLYING AREAS - BASE  1, PHASE 3
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287    BEGINNING FLYING AREAS - BASE  2, PHASE 1
288    BEGINNING FLYING AREAS - BASE  2, PHASE 2
289    BEGINNING FLYING AREAS - BASE  2, PHASE 3
290    BEGINNING FLYING AREAS - BASE  3, PHASE 1
291    BEGINNING FLYING AREAS - BASE  3, PHASE 2
292    BEGINNING FLYING AREAS - BASE  3, PHASE 3
293    BEGINNING FLYING AREAS - BASE  4, PHASE 1
294    BEGINNING FLYING AREAS - BASE  4, PHASE 2
295    BEGINNING FLYING AREAS - BASE  4, PHASE 3
296    BEGINNING FLYING AREAS - BASE  5, PHASE 1
297    BEGINNING FLYING AREAS - BASE  5, PHASE 2
298    BEGINNING FLYING AREAS - BASE  5, PHASE 3
299    BEGINNING FLYING AREAS - BASE  6, PHASE 1
300    BEGINNING FLYING AREAS - BASE  6, PHASE 2
301    BEGINNING FLYING AREAS - BASE  6, PHASE 3
302    BEGINNING FLYING AREAS - BASE  7, PHASE 1
303    BEGINNING FLYING AREAS - BASE  7, PHASE 2
304    BEGINNING FLYING AREAS - BASE  7, PHASE 3
305    BEGINNING FLYING AREAS - BASE  8, PHASE 1
306    BEGINNING FLYING AREAS - BASE  8, PHASE 2
307    BEGINNING FLYING AREAS - BASE  8, PHASE 3
308    BEGINNING FLYING AREAS - BASE  9, PHASE 1
309    BEGINNING FLYING AREAS - BASE  9, PHASE 2
310    BEGINNING FLYING AREAS - BASE  9, PHASE 3
311    BEGINNING FLYING AREAS - BASE 10, PHASE 1
312    BEGINNING FLYING AREAS - BASE 10, PHASE 2
313    BEGINNING FLYING AREAS - BASE 10, PHASE 3
314    BEGINNING FLYING AREAS - BASE 11, PHASE 1
315    BEGINNING FLYING AREAS - BASE 11, PHASE 2
316    BEGINNING FLYING AREAS - BASE 11, PHASE 3
317    BEGINNING FLYING AREAS - BASE 12, PHASE 1
318    BEGINNING FLYING AREAS - BASE 12, PHASE 2
319    BEGINNING FLYING AREAS - BASE 12, PHASE 3
320    BEGINNING FLYING AREAS - BASE 13, PHASE 1
321    BEGINNING FLYING AREAS - BASE 13, PHASE 2
322    BEGINNING FLYING AREAS - BASE 13, PHASE 3
323    BEGINNING FLYING AREAS - BASE 14, PHASE 1
324    BEGINNING FLYING AREAS - BASE 14, PHASE 2
325    BEGINNING FLYING AREAS - BASE 14, PHASE 3
326    BEGINNING FLYING AREAS - BASE 15, PHASE 1
327    BEGINNING FLYING AREAS - BASE 15, PHASE 2
328    BEGINNING FLYING AREAS - BASE 15, PHASE 3
329    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  1,PHASE 1                   A29
330    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  1,PHASE 2
331    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  1,PHASE 3
332    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  2,PHASE 1
333    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  2,PHASE 2
334    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  2,PHASE 3
335    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  3,PHASE 1
336    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  3,PHASE 2
337    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  3,PHASE 3
338    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  4, PHASE 1
339    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  4, PHASE 2
340    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  4, PHASE 3
341    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  5, PHASE 1
342    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  5, PHASE 2
343    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  5, PHASE 3
344    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  6, PHASE 1
345    ADDITIONAL FLYING AREAS (THRUPUT) - BASE  6, PHASE 2
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346   ADDITIONAL FLYING AREAS (THRUPUT) - BASE  6, PHASE 3
347   ADDITIONAL FLYING AREAS (THRUPUT) - BASE  7, PHASE 1
348   ADDITIONAL FLYING AREAS (THRUPUT) - BASE  7, PHASE 2
349   ADDITIONAL FLYING AREAS (THRUPUT) - BASE  7, PHASE 3
350   ADDITIONAL FLYING AREAS (THRUPUT) - BASE  8, PHASE 1
351   ADDITIONAL FLYING AREAS (THRUPUT) - BASE  8, PHASE 2
352   ADDITIONAL FLYING AREAS (THRUPUT) - BASE  8, PHASE 3
353   ADDITIONAL FLYING AREAS (THRUPUT) - BASE  9, PHASE 1
354   ADDITIONAL FLYING AREAS (THRUPUT) - BASE  9, PHASE 2
355   ADDITIONAL FLYING AREAS (THRUPUT) - BASE  9, PHASE 3
356   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 10, PHASE 1
357   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 10, PHASE 2
358   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 10, PHASE 3
359   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 11, PHASE 1
360   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 11, PHASE 2
361   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 11, PHASE 3
362   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 12, PHASE 1
363   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 12, PHASE 2
364   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 12, PHASE 3
365   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 13, PHASE 1
366   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 13, PHASE 2
368   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 14, PHASE 1
367   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 13, PHASE 3
369   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 14, PHASE 2
370   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 14, PHASE 3
371   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 15, PHASE 1
372   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 15, PHASE 2
373   ADDITIONAL FLYING AREAS (THRUPUT) - BASE 15, PHASE 3
374   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  1, PHASE 1
375   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  1, PHASE 2
376   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  1, PHASE 3
377   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  2, PHASE 1
378   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  2, PHASE 2
379   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  2, PHASE 3
380   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  3, PHASE 1
381   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  3, PHASE 2
382   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  3, PHASE 3
383   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  4, PHASE 1
384   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  4, PHASE 2
385   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  4, PHASE 3
386   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  5, PHASE 1
387   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  5, PHASE 2
388   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  5, PHASE 3
389   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  6, PHASE 1
390   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  6, PHASE 2
391   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  6, PHASE 3
392   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  7, PHASE 1
393   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  7, PHASE 2
394   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  7, PHASE 3
395   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  8, PHASE 1
396   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  8, PHASE 2
397   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  8, PHASE 3
398   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  9, PHASE 1
399   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  9, PHASE 2
400   PREFERENCE FOR ADDITIONAL RUNWAY - BASE  9, PHASE 3
401   PREFERENCE FOR ADDITIONAL RUNWAY - BASE 10, PHASE 1
402   PREFERENCE FOR ADDITIONAL RUNWAY - BASE 10, PHASE 2
403   PREFERENCE FOR ADDITIONAL RUNWAY - BASE 10, PHASE 3
404   PREFERENCE FOR ADDITIONAL RUNWAY - BASE 11, PHASE 1
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405 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 11, PHASE 2
406 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 11, PHASE 3
407 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 12, PHASE 1
408 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 12, PHASE 2
409 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 12, PHASE 3
410 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 13, PHASE 1
411 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 13, PHASE 2
412 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 13, PHASE 3
413 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 14, PHASE 1
414 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 14, PHASE 2
415 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 14, PHASE 3
416 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 15, PHASE 1
417 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 15, PHASE 2
418 PREFERENCE FOR ADDITIONAL RUNWAY - BASE 15, PHASE 3
419 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 1, PHASE 1 A32
420 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 1, PHASE 2
421 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 1, PHASE 3
422 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 2, PHASE 1
423 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 2, PHASE 2
424 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 2, PHASE 3
425 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 3, PHASE 1
426 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 3, PHASE 2
427 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 3, PHASE 3
428 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 4, PHASE 1
429 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 4, PHASE 2
430 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 4, PHASE 3
431 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 5, PHASE 1
432 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 5, PHASE 2
433 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 5, PHASE 3
434 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 6, PHASE 1
435 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 6, PHASE 2
436 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 6, PHASE 3
437 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 7, PHASE 1
438 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 7, PHASE 2
439 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 7, PHASE 3
440 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 8, PHASE 1
441 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 8, PHASE 2
442 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 8, PHASE 3
443 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 9, PHASE 1
444 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 9, PHASE 2
445 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 9, PHASE 3
446 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 10, PHASE 1
447 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 10, PHASE 2
448 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 10, PHASE 3
449 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 11, PHASE 1
450 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 11, PHASE 2
451 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 11, PHASE 3
452 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 12, PHASE 1
453 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 12, PHASE 2
454 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 12, PHASE 3
455 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 13, PHASE 1
456 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 13, PHASE 2
457 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 13, PHASE 3
458 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 14, PHASE 1
459 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 14, PHASE 2
460 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 14, PHASE 3
461 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 15, PHASE 1
462 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 15, PHASE 2
463 PREFERENCE FOR ADDITIONAL FLYING AREAS - BASE 15, PHASE 3

464	HOURS OF DAYLIGHT	A19
465	SORTIE LENGTH IN MINUTES - PHASE 1	A20
466	SORTIE LENGTH IN MINUTES - PHASE 2	
467	SORTIE LENGTH IN MINUTES - PHASE 3	
468	DAYLIGHT OVERHEAD PERCENTAGE - PHASE 1	A22
469	DAYLIGHT OVERHEAD PERCENTAGE - PHASE 2	
470	DAYLIGHT OVERHEAD PERCENTAGE - PHASE 3	
471	OPERATIONS MAINTENANCE SUCCESS FACTOR - PHASE 1	A24
472	OPERATIONS MAINTENANCE SUCCESS FACTOR - PHASE 2	
473	OPERATIONS MAINTENANCE SUCCESS FACTOR - PHASE 3	
474	PERCENT OF STUDENT SORTIES THAT ARE DAYLIGHT - PHASE 1	A25
475	PERCENT OF STUDENT SORTIES THAT ARE DAYLIGHT - PHASE 2	
476	PERCENT OF STUDENT SORTIES THAT ARE DAYLIGHT - PHASE 3	
477	ADDITIONAL UPT BASE	A27
478	CONSOLIDATED UPT PROGRAM INDICATOR (1 - NOT CONSOLIDATED)	A218
479	PHASE OF WHICH CONTRACTED STUDENT LOAD IS PROPORTIONATE	A219
480	PREFERENCE FOR ADDITIONAL UPT BASE - PREFERENCE RANK 1	A30
481	PREFERENCE FOR ADDITIONAL UPT BASE - PREFERENCE RANK 2	
482	PREFERENCE FOR ADDITIONAL UPT BASE - PREFERENCE RANK 3	
483	PREFERENCE FOR ADDITIONAL UPT BASE - PREFERENCE RANK 4	
484	PREFERENCE FOR ADDITIONAL UPT BASE - PREFERENCE RANK 5	
485	PREFERENCE FOR ADDITIONAL UPT BASE - PREFERENCE RANK 6	
486	PREFERENCE FOR ADDITIONAL UPT BASE - PREFERENCE RANK 7	
487	PREFERENCE FOR ADDITIONAL UPT BASE - PREFERENCE RANK 8	
488	PREFERENCE FOR ADDITIONAL UPT BASE - PREFERENCE RANK 9	
489	PREFERENCE FOR ADDITIONAL UPT BASE - PREFERENCE RANK 10	
490	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 1	A33
491	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 2	
492	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 3	
493	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 4	
494	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 5	
495	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 6	
496	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 7	
497	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 8	
498	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 9	
499	ADDITIONAL FLYING AREAS PREFERRED - PREFERENCE RANK 10	

TYPE 4

500	PERCENT OF STUDENT FLYING HOURS DUAL - PHASE 1	A34
501	PERCENT OF STUDENT FLYING HOURS DUAL - PHASE 2	
502	PERCENT OF STUDENT FLYING HOURS DUAL - PHASE 3	
503	DUAL HOURS BY OTHER THAN LINE I.P.'S - PHASE 1	A35
504	DUAL HOURS BY OTHER THAN LINE I.P.'S - PHASE 2	
505	DUAL HOURS BY OTHER THAN LINE I.P.'S - PHASE 3	
506	INSTRUCTOR PILOTS/1000 DUAL FLYING HRS/YEAR - PHASE 1	A36
507	INSTRUCTOR PILOTS/1000 DUAL FLYING HRS/YEAR - PHASE 2	
508	INSTRUCTOR PILOTS/1000 DUAL FLYING HRS/YEAR - PHASE 3	
509	INSTRUCTOR PILOTS REQUIRED CONSTANT - PHASE 1	A37
510	INSTRUCTOR PILOTS REQUIRED CONSTANT - PHASE 2	
511	INSTRUCTOR PILOTS REQUIRED CONSTANT - PHASE 3	
512	OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 1	A38
513	OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 2	
514	OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 3	
515	OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 4	
516	OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 5	
517	OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 6	
518	OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 7	
519	OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 8	

520 OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 9
521 OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 10
522 OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 11
523 OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 12
524 OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 13
525 OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 14
526 OTHER PILOT TRAINING SQUADRON PERSONNEL - BASE 15
527 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 1 A39
528 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 2
529 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 3
530 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 4
531 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 5
532 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 6
533 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 7
534 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 8
535 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 9
536 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 10
537 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 11
538 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 12
539 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 13
540 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 14
541 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT OFFICERS - BASE 15
542 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 1 A40
543 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 2
544 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 3
545 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 4
546 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 5
547 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 6
548 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 7
549 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 8
550 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 9
551 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 10
552 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 11
553 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 12
554 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 13
555 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 14
556 OTHER PILOT TRNG. SQ. PERSONNEL PERCENT AIRMEN - BASE 15
557 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 1 A42
558 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 2
559 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 3
560 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 4
561 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 5
562 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 6
563 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 7
564 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 8
565 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 9
566 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 10
567 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 11
568 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 12
569 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 13
570 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 14
571 PILOT TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 15
572 ACADEMIC TRAINING INSTRUCTORS/ACAD. HR./YR./STUDENT - PHASE 1 A45
573 ACADEMIC TRAINING INSTRUCTORS/ACAD. HR./YR./STUDENT - PHASE 2
574 ACADEMIC TRAINING INSTRUCTORS/ACAD. HR./YR./STUDENT - PHASE 3
575 OFFICER TRAINING INSTRUCTORS/OFF. TRNG. HR./YR./STUDENT - PHASE 1 A46
576 OFFICER TRAINING INSTRUCTORS/OFF. TRNG. HR./YR./STUDENT - PHASE 2
577 OFFICER TRAINING INSTRUCTORS/OFF. TRNG. HR./YR./STUDENT - PHASE 3
578 STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 1, PHASE 1 A47

```
579   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  1, PHASE 2
580   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  1, PHASE 3
581   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  2, PHASE 1
582   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  2, PHASE 2
583   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  2, PHASE 3
584   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  3, PHASE 1
585   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  3, PHASE 2
586   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  3, PHASE 3
587   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  4, PHASE 1
588   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  4, PHASE 2
589   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  4, PHASE 3
590   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  5, PHASE 1
591   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  5, PHASE 2
592   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  5, PHASE 3
593   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  6, PHASE 1
594   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  6, PHASE 2
595   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  6, PHASE 3
596   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  7, PHASE 1
597   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  7, PHASE 2
598   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  7, PHASE 3
599   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  8, PHASE 1
600   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  8, PHASE 2
601   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  8, PHASE 3
602   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  9, PHASE 1
603   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  9, PHASE 2
604   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE  9, PHASE 3
605   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 10, PHASE 1
606   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 10, PHASE 2
607   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 10, PHASE 3
608   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 11, PHASE 1
609   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 11, PHASE 2
610   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 11, PHASE 3
611   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 12, PHASE 1
612   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 12, PHASE 2
613   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 12, PHASE 3
614   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 13, PHASE 1
615   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 13, PHASE 2
616   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 13, PHASE 3
617   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 14, PHASE 1
618   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 14, PHASE 2
619   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 14, PHASE 3
620   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 15, PHASE 1
621   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 15, PHASE 2
622   STUDENT SQ. INSTRUCTORS PERCENT OFFICERS - BASE 15, PHASE 3
623   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  1, PHASE 1          A48
624   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  1, PHASE 2
625   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  1, PHASE 3
626   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  2, PHASE 1
627   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  2, PHASE 2
628   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  2, PHASE 3
629   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  3, PHASE 1
630   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  3, PHASE 2
631   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  3, PHASE 3
632   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  4, PHASE 1
633   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  4, PHASE 2
634   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  4, PHASE 3
635   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  5, PHASE 1
636   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  5, PHASE 2
637   STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE  5, PHASE 3
```

638 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 6, PHASE 1
639 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 6, PHASE 2
640 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 6, PHASE 3
641 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 7, PHASE 1
642 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 7, PHASE 2
643 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 7, PHASE 3
644 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 8, PHASE 1
645 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 8, PHASE 2
646 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 8, PHASE 3
647 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 9, PHASE 1
648 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 9, PHASE 2
649 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 9, PHASE 3
650 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 10, PHASE 1
651 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 10, PHASE 2
652 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 10, PHASE 3
653 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 11, PHASE 1
654 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 11, PHASE 2
655 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 11, PHASE 3
656 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 12, PHASE 1
657 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 12, PHASE 2
658 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 12, PHASE 3
659 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 13, PHASE 1
660 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 13, PHASE 2
661 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 13, PHASE 3
662 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 14, PHASE 1
663 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 14, PHASE 2
664 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 14, PHASE 3
665 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 15, PHASE 1
666 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 15, PHASE 2
667 STUDENT SQ. INSTRUCTORS PERCENT AIRMEN - BASE 15, PHASE 3
668 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 1 A50
669 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 2
670 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 3
671 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 4
672 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 5
673 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 6
674 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 7
675 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 8
676 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 9
677 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 10
678 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 11
679 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 12
680 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 13
681 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 14
682 STUDENT SQ. MILITARY PERCENT ASSIGNED - BASE 15
683 OTHER STUDENT SQUADRON PERSONNEL - BASE 1 A51
684 OTHER STUDENT SQUADRON PERSONNEL - BASE 2
685 OTHER STUDENT SQUADRON PERSONNEL - BASE 3
686 OTHER STUDENT SQUADRON PERSONNEL - BASE 4
687 OTHER STUDENT SQUADRON PERSONNEL - BASE 5
688 OTHER STUDENT SQUADRON PERSONNEL - BASE 6
689 OTHER STUDENT SQUADRON PERSONNEL - BASE 7
690 OTHER STUDENT SQUADRON PERSONNEL - BASE 8
691 OTHER STUDENT SQUADRON PERSONNEL - BASE 9
692 OTHER STUDENT SQUADRON PERSONNEL - BASE 10
693 OTHER STUDENT SQUADRON PERSONNEL - BASE 11
694 OTHER STUDENT SQUADRON PERSONNEL - BASE 12
695 OTHER STUDENT SQUADRON PERSONNEL - BASE 13
696 OTHER STUDENT SQUADRON PERSONNEL - BASE 14

```
697   OTHER STUDENT SQUADRON PERSONNEL - BASE 15
698   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE  1                A52
699   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE  2
700   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE  3
701   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE  4
702   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE  5
703   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE  6
704   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE  7
705   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE  8
706   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE  9
707   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE 10
708   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE 11
709   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE 12
710   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE 13
711   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE 14
712   OTHER STUDENT SQ. PERSONNEL PERCENT OFFICERS - BASE 15
713   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE  1                  A53
714   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE  2
715   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE  3
716   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE  4
717   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE  5
718   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE  6
719   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE  7
720   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE  8
721   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE  9
722   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE 10
723   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE 11
724   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE 12
725   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE 13
726   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE 14
727   OTHER STUDENT SQ. PERSONNEL PERCENT AIRMEN - BASE 15
728
729
730
731   SIMULATOR REFLY FACTOR - PHASE 1                                      A56
732   SIMULATOR REFLY FACTOR - PHASE 2
733   SIMULATOR REFLY FACTOR - PHASE 3
734   SIMULATOR INSTRUCTORS/1000 SIMULATOR HRS/ YEAR - PHASE 1              A214
735   SIMULATOR INSTRUCTORS/1000 SIMULATOR HRS/ YEAR - PHASE 2
736   SIMULATOR INSTRUCTORS/1000 SIMULATOR HRS/ YEAR - PHASE 3
737   OTHER SIMULATOR BRANCH PERSONNEL - BASE  1                            A57
738   OTHER SIMULATOR BRANCH PERSONNEL - BASE  2
739   OTHER SIMULATOR BRANCH PERSONNEL - BASE  3
740   OTHER SIMULATOR BRANCH PERSONNEL - BASE  4
741   OTHER SIMULATOR BRANCH PERSONNEL - BASE  5
742   OTHER SIMULATOR BRANCH PERSONNEL - BASE  6
743   OTHER SIMULATOR BRANCH PERSONNEL - BASE  7
744   OTHER SIMULATOR BRANCH PERSONNEL - BASE  8
745   OTHER SIMULATOR BRANCH PERSONNEL - BASE  9
746   OTHER SIMULATOR BRANCH PERSONNEL - BASE 10
747   OTHER SIMULATOR BRANCH PERSONNEL - BASE 11
748   OTHER SIMULATOR BRANCH PERSONNEL - BASE 12
749   OTHER SIMULATOR BRANCH PERSONNEL - BASE 13
750   OTHER SIMULATOR BRANCH PERSONNEL - BASE 14
751   OTHER SIMULATOR BRANCH PERSONNEL - BASE 15
752   SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE  1                  A58
753   SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE  2
754   SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE  3
755   SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE  4
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756	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 5	
757	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 6	
758	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 7	
759	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 8	
760	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 9	
761	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 10	
762	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 11	
763	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 12	
764	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 13	
765	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 14	
766	SIMULATOR BRANCH MILITARY PERCENT ASSIGNED - BASE 15	
1431	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 1	A59
1432	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 2	
1433	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 3	
1434	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 4	
1435	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 5	
1436	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 6	
1437	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 7	
1438	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 8	
1439	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 9	
1440	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 10	
1441	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 11	
1442	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 12	
1443	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 13	
1444	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 14	
1445	OTHER SIMULATOR PERSONNEL PERCENT OFFICERS - BASE 15	
1446	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 1	A60
1447	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 2	
1448	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 3	
1449	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 4	
1450	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 5	
1451	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 6	
1452	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 7	
1453	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 8	
1454	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 9	
1455	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 10	
1456	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 11	
1457	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 12	
1458	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 13	
1459	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 14	
1460	OTHER SIMULATOR PERSONNEL PERCENT AIRMEN - BASE 15	
2532	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 1, PHASE 1	A231
2533	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 1, PHASE 2	
2534	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 1, PHASE 3	
2535	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 2, PHASE 1	
2536	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 2, PHASE 2	
2537	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 2, PHASE 3	
2538	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 3, PHASE 1	
2539	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 3, PHASE 2	
2540	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 3, PHASE 3	
2541	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 4, PHASE 1	
2542	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 4, PHASE 2	
2543	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 4, PHASE 3	
2544	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 5, PHASE 1	
2545	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 5, PHASE 2	
2546	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 5, PHASE 3	
2547	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 6, PHASE 1	
2548	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 6, PHASE 2	
2549	SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 6, PHASE 3	

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2550  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE  7, PHASE 1
2551  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE  7, PHASE 2
2552  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE  7, PHASE 3
2553  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE  8, PHASE 1
2554  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE  8, PHASE 2
2555  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE  8, PHASE 3
2556  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE  9, PHASE 1
2557  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE  9, PHASE 2
2558  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE  9, PHASE 3
2559  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 10, PHASE 1
2560  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 10, PHASE 2
2561  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 10, PHASE 3
2562  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 11, PHASE 1
2563  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 11, PHASE 2
2564  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 11, PHASE 3
2565  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 12, PHASE 1
2566  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 12, PHASE 2
2567  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 12, PHASE 3
2568  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 13, PHASE 1
2569  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 13, PHASE 2
2570  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 13, PHASE 3
2571  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 14, PHASE 1
2572  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 14, PHASE 2
2573  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 14, PHASE 3
2574  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 15, PHASE 1
2575  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 15, PHASE 2
2576  SIMULATOR INSTRUCTORS PERCENT OFFICERS - BASE 15, PHASE 3
2577  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  1, PHASE 1               A232
2578  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  1, PHASE 2
2579  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  1, PHASE 3
2580  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  2, PHASE 1
2581  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  2, PHASE 2
2582  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  2, PHASE 3
2583  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  3, PHASE 1
2584  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  3, PHASE 2
2585  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  3, PHASE 3
2586  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  4, PHASE 1
2587  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  4, PHASE 2
2588  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  4, PHASE 3
2589  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  5, PHASE 1
2590  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  5, PHASE 2
2591  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  5, PHASE 3
2592  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  6, PHASE 1
2593  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  6, PHASE 2
2594  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  6, PHASE 3
2595  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  7, PHASE 1
2596  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  7, PHASE 2
2597  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  7, PHASE 3
2598  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  8, PHASE 1
2599  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  8, PHASE 2
2600  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  8, PHASE 3
2601  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  9, PHASE 1
2602  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  9, PHASE 2
2603  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE  9, PHASE 3
2604  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 10, PHASE 1
2605  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 10, PHASE 2
2606  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 10, PHASE 3
2607  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 11, PHASE 1
2608  SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 11, PHASE 2
```

2609	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 11, PHASE 3	
2610	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 12, PHASE 1	
2611	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 12, PHASE 2	
2612	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 12, PHASE 3	
2613	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 13, PHASE 1	
2614	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 13, PHASE 2	
2615	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 13, PHASE 3	
2616	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 14, PHASE 1	
2617	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 14, PHASE 2	
2618	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 14, PHASE 3	
2619	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 15, PHASE 1	
2620	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 15, PHASE 2	
2621	SIMULATOR INSTRUCTORS PERCENT AIRMEN - BASE 15, PHASE 3	
767	PROFIENCY FLYING HRS./YR./INSTRUCTOR - PHASE 1	A62
768	PROFIENCY FLYING HRS./YR./INSTRUCTOR - PHASE 2	
769	PROFIENCY FLYING HRS./YR./INSTRUCTOR - PHASE 3	
770	SUPPORT FLYING HRS. PERCENT OF STUDENT FLYING HRS. - PHASE 1	A63
771	SUPPORT FLYING HRS. PERCENT OF STUDENT FLYING HRS. - PHASE 2	
772	SUPPORT FLYING HRS. PERCENT OF STUDENT FLYING HRS. - PHASE 3	
773	TEST FLYING HOURS PERCENT OF OTHERS - PHASE 1	A64
774	TEST FLYING HOURS PERCENT OF OTHERS - PHASE 2	
775	TEST FLYING HOURS PERCENT OF OTHERS - PHASE 3	
776	FIELD MAINTENANCE PERSONNEL/FLYING HR./YR. - PHASE 1	A65
777	FIELD MAINTENANCE PERSONNEL/FLYING HR./YR. - PHASE 2	
778	FIELD MAINTENANCE PERSONNEL/FLYING HR./YR. - PHASE 3	
779	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 1, PHASE 1	A66
780	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 1, PHASE 2	
781	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 1, PHASE 3	
782	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 2, PHASE 1	
783	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 2, PHASE 2	
784	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 2, PHASE 3	
785	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 3, PHASE 1	
786	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 3, PHASE 2	
787	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 3, PHASE 3	
788	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 4, PHASE 1	
789	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 4, PHASE 2	
790	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 4, PHASE 3	
791	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 5, PHASE 1	
792	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 5, PHASE 2	
793	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 5, PHASE 3	
794	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 6, PHASE 1	
795	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 6, PHASE 2	
796	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 6, PHASE 3	
797	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 7, PHASE 1	
798	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 7, PHASE 2	
799	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 7, PHASE 3	
800	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 8, PHASE 1	
801	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 8, PHASE 2	
802	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 8, PHASE 3	
803	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 9, PHASE 1	
804	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 9, PHASE 2	
805	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 9, PHASE 3	
806	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 10, PHASE 1	
807	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 10, PHASE 2	
808	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 10, PHASE 3	
809	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 11, PHASE 1	
810	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 11, PHASE 2	
811	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 11, PHASE 3	
812	FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 12, PHASE 1	

813 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 12, PHASE 2
814 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 12, PHASE 3
815 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 13, PHASE 1
816 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 13, PHASE 2
817 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 13, PHASE 3
818 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 14, PHASE 1
819 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 14, PHASE 2
820 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 14, PHASE 3
821 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 15, PHASE 1
822 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 15, PHASE 2
823 FIELD MAINTENANCE PERSONNEL CONSTANT - BASE 15, PHASE 3
824 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 1 A67
825 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 2
826 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 3
827 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 4
828 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 5
829 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 6
830 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 7
831 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 8
832 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 9
833 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 10
834 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 11
835 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 12
836 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 13
837 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 14
838 FIELD MAINTENANCE PERSONNEL PERCENT OFFICERS - BASE 15
839 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 1 A68
840 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 2
841 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 3
842 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 4
843 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 5
844 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 6
845 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 7
846 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 8
847 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 9
848 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 10
849 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 11
850 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 12
851 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 13
852 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 14
853 FIELD MAINTENANCE PERSONNEL PERCENT AIRMEN - BASE 15
854 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 1 A70
855 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 2
856 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 3
857 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 4
858 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 5
859 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 6
860 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 7
861 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 8
862 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 9
863 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 10
864 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 11
865 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 12
866 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 13
867 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 14
868 FIELD MAINTENANCE MILITARY PERCENT ASSIGNED - BASE 15
869 ORGAN. MAINT. PERS./FLYING HR./YR. - PHASE 1 A71
870 ORGAN. MAINT. PERS./FLYING HR./YR. - PHASE 2
871 ORGAN. MAINT. PERS./FLYING HR./YR. - PHASE 3

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872    ORGAN. MAINT. PERS. CONSTANT - BASE  1, PHASE 1                        A72
873    ORGAN. MAINT. PERS. CONSTANT - BASE  1, PHASE 2
874    ORGAN. MAINT. PERS. CONSTANT - BASE  1, PHASE 3
875    ORGAN. MAINT. PERS. CONSTANT - BASE  2, PHASE 1
876    ORGAN. MAINT. PERS. CONSTANT - BASE  2, PHASE 2
877    ORGAN. MAINT. PERS. CONSTANT - BASE  2, PHASE 3
878    ORGAN. MAINT. PERS. CONSTANT - BASE  3, PHASE 1
879    ORGAN. MAINT. PERS. CONSTANT - BASE  3, PHASE 2
880    ORGAN. MAINT. PERS. CONSTANT - BASE  3, PHASE 3
881    ORGAN. MAINT. PERS. CONSTANT - BASE  4, PHASE 1
882    ORGAN. MAINT. PERS. CONSTANT - BASE  4, PHASE 2
883    ORGAN. MAINT. PERS. CONSTANT - BASE  4, PHASE 3
884    ORGAN. MAINT. PERS. CONSTANT - BASE  5, PHASE 1
885    ORGAN. MAINT. PERS. CONSTANT - BASE  5, PHASE 2
886    ORGAN. MAINT. PERS. CONSTANT - BASE  5, PHASE 3
887    ORGAN. MAINT. PERS. CONSTANT - BASE  6, PHASE 1
888    ORGAN. MAINT. PERS. CONSTANT - BASE  6, PHASE 2
889    ORGAN. MAINT. PERS. CONSTANT - BASE  6, PHASE 3
890    ORGAN. MAINT. PERS. CONSTANT - BASE  7, PHASE 1
891    ORGAN. MAINT. PERS. CONSTANT - BASE  7, PHASE 2
892    ORGAN. MAINT. PERS. CONSTANT - BASE  7, PHASE 3
893    ORGAN. MAINT. PERS. CONSTANT - BASE  8, PHASE 1
894    ORGAN. MAINT. PERS. CONSTANT - BASE  8, PHASE 2
895    ORGAN. MAINT. PERS. CONSTANT - BASE  8, PHASE 3
896    ORGAN. MAINT. PERS. CONSTANT - BASE  9, PHASE 1
897    ORGAN. MAINT. PERS. CONSTANT - BASE  9, PHASE 2
898    ORGAN. MAINT. PERS. CONSTANT - BASE  9, PHASE 3
899    ORGAN. MAINT. PERS. CONSTANT - BASE 10, PHASE 1
900    ORGAN. MAINT. PERS. CONSTANT - BASE 10, PHASE 2
901    ORGAN. MAINT. PERS. CONSTANT - BASE 10, PHASE 3
902    ORGAN. MAINT. PERS. CONSTANT - BASE 11, PHASE 1
903    ORGAN. MAINT. PERS. CONSTANT - BASE 11, PHASE 2
904    ORGAN. MAINT. PERS. CONSTANT - BASE 11, PHASE 3
905    ORGAN. MAINT. PERS. CONSTANT - BASE 12, PHASE 1
906    ORGAN. MAINT. PERS. CONSTANT - BASE 12, PHASE 2
907    ORGAN. MAINT. PERS. CONSTANT - BASE 12, PHASE 3
908    ORGAN. MAINT. PERS. CONSTANT - BASE 13, PHASE 1
909    ORGAN. MAINT. PERS. CONSTANT - BASE 13, PHASE 2
910    ORGAN. MAINT. PERS. CONSTANT - BASE 13, PHASE 3
911    ORGAN. MAINT. PERS. CONSTANT - BASE 14, PHASE 1
912    ORGAN. MAINT. PERS. CONSTANT - BASE 14, PHASE 2
913    ORGAN. MAINT. PERS. CONSTANT - BASE 14, PHASE 3
914    ORGAN. MAINT. PERS. CONSTANT - BASE 15, PHASE 1
915    ORGAN. MAINT. PERS. CONSTANT - BASE 15, PHASE 2
916    ORGAN. MAINT. PERS. CONSTANT - BASE 15, PHASE 3
917    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE  1                         A73
918    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE  2
919    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE  3
920    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE  4
921    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE  5
922    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE  6
923    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE  7
924    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE  8
925    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE  9
926    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE 10
927    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE 11
928    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE 12
929    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE 13
930    ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE 14
```

931	ORGAN. MAINT. PERS. PERCENT OFFICERS - BASE 15	
932	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 1	A74
933	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 2	
934	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 3	
935	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 4	
936	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 5	
937	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 6	
938	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 7	
939	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 8	
940	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 9	
941	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 10	
942	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 11	
943	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 12	
944	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 13	
945	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 14	
946	ORGAN. MAINT. PERS. PERCENT AIRMEN - BASE 15	
947	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 1	A76
948	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 2	
949	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 3	
950	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 4	
951	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 5	
952	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 6	
953	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 7	
954	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 8	
955	ORGAN. MAINT. MILITARY PFRCENT ASSIGNED - BASE 9	
956	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 10	
957	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 11	
958	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 12	
959	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 13	
960	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 14	
961	ORGAN. MAINT. MILITARY PERCENT ASSIGNED - BASE 15	
962	PILOT TRNG. WG. PERS./OPERATIONS PERS.	A77
963	PILOT TRNG. WG. PERS./MAINTENANCE PERS.	A78
964	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 1	A79
965	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 2	
966	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 3	
967	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 4	
968	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 5	
969	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 6	
970	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 7	
971	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 8	
972	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 9	
973	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 10	
974	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 11	
975	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 12	
976	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 13	
977	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 14	
978	OTHER PILOT TRNG. WG. PERS. REQUIRED - BASE 15	
979	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 1	A80
980	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 2	
981	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 3	
982	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 4	
983	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 5	
984	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 6	
985	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 7	
986	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 8	
987	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 9	
988	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 10	
989	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 11	

990	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 12	
991	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 13	
992	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 14	
993	PILOT TRNG. WG. PERS. PERCENT OFFICERS - BASE 15	
994	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 1	A81
995	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 2	
996	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 3	
997	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 4	
998	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 5	
999	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 6	
1000	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 7	
1001	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 8	
1002	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 9	
1003	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 10	
1004	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 11	
1005	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 12	
1006	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 13	
1007	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 14	
1008	PILOT TRNG. WG. PERS. PERCENT AIRMEN - BASE 15	
1009	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 1	A83
1010	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 2	
1011	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 3	
1012	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 4	
1013	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 5	
1014	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 6	
1015	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 7	
1016	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 8	
1017	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 9	
1018	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 10	
1019	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 11	
1020	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 12	
1021	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 13	
1022	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 14	
1023	PILOT TRNG. WG. MILITARY PERCENT ASSIGNED - BASE 15	
1024	FIELD MAINT. PERS. (OTHER) - BASE 1	A215
1025	FIELD MAINT. PERS. (OTHER) - BASE 2	
1026	FIELD MAINT. PERS. (OTHER) - BASE 3	
1027	FIELD MAINT. PERS. (OTHER) - BASE 4	
1028	FIELD MAINT. PERS. (OTHER) - BASE 5	
1029	FIELD MAINT. PERS. (OTHER) - BASE 6	
1030	FIELD MAINT. PERS. (OTHER) - BASE 7	
1031	FIELD MAINT. PERS. (OTHER) - BASE 8	
1032	FIELD MAINT. PERS. (OTHER) - BASE 9	
1033	FIELD MAINT. PERS. (OTHER) - BASE 10	
1034	FIELD MAINT. PERS. (OTHER) - BASE 11	
1035	FIELD MAINT. PERS. (OTHER) - BASE 12	
1036	FIELD MAINT. PERS. (OTHER) - BASE 13	
1037	FIELD MAINT. PERS. (OTHER) - BASE 14	
1038	FIELD MAINT. PERS. (OTHER) - BASE 15	
1039	ORGAN. MAINT. PERS. (OTHER) - BASE 1	A216
1040	ORGAN. MAINT. PERS. (OTHER) - BASE 2	
1041	ORGAN. MAINT. PERS. (OTHER) - BASE 3	
1042	ORGAN. MAINT. PERS. (OTHER) - BASE 4	
1043	ORGAN. MAINT. PERS. (OTHER) - BASE 5	
1044	ORGAN. MAINT. PERS. (OTHER) - BASE 6	
1045	ORGAN. MAINT. PERS. (OTHER) - BASE 7	
1046	ORGAN. MAINT. PERS. (OTHER) - BASE 8	
1047	ORGAN. MAINT. PERS. (OTHER) - BASE 9	
1048	ORGAN. MAINT. PERS. (OTHER) - BASE 10	

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1049  ORGAN. MAINT. PERS. (OTHER) - BASE 11
1050  ORGAN. MAINT. PERS. (OTHER) - BASE 12
1051  ORGAN. MAINT. PERS. (OTHER) - BASE 13
1052  ORGAN. MAINT. PERS. (OTHER) - BASE 14
1053  ORGAN. MAINT. PERS. (OTHER) - BASE 15
1054  AVERAGE FLYING HOURS/PHASE  FOR PHASE I (FIP & NON-FIP)                A217
1055  SUPPLY SQ. PERSONNEL REQUIRED - BASE  1                                 A84
1056  SUPPLY SQ. PERSONNEL REQUIRED - BASE  2
1057  SUPPLY SQ. PERSONNEL REQUIRED - BASE  3
1058  SUPPLY SQ. PERSONNEL REQUIRED - BASE  4
1059  SUPPLY SQ. PERSONNEL REQUIRED - BASE  5
1060  SUPPLY SQ. PERSONNEL REQUIRED - BASE  6
1061  SUPPLY SQ. PERSONNEL REQUIRED - BASE  7
1062  SUPPLY SQ. PERSONNEL REQUIRED - BASE  8
1063  SUPPLY SQ. PERSONNEL REQUIRED - BASE  9
1064  SUPPLY SQ. PERSONNEL REQUIRED - BASE 10
1065  SUPPLY SQ. PERSONNEL REQUIRED - BASE 11
1066  SUPPLY SQ. PERSONNEL REQUIRED - BASE 12
1067  SUPPLY SQ. PERSONNEL REQUIRED - BASE 13
1068  SUPPLY SQ. PERSONNEL REQUIRED - BASE 14
1069  SUPPLY SQ. PERSONNEL REQUIRED - BASE 15
1070  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE  1                         A85
1071  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE  2
1072  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE  3
1073  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE  4
1074  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE  5
1075  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE  6
1076  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE  7
1077  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE  8
1078  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE  9
1079  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE 10
1080  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE 11
1081  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE 12
1082  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE 13
1083  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE 14
1084  SUPPLY SQ. PERSONNEL PERCENT OFFICERS - BASE 15
1085  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE  1                           A86
1086  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE  2
1087  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE  3
1088  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE  4
1089  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE  5
1090  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE  6
1091  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE  7
1092  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE  8
1093  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE  9
1094  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE 10
1095  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE 11
1096  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE 12
1097  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE 13
1098  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE 14
1099  SUPPLY SQ. PERSONNEL PERCENT AIRMEN - BASE 15
1100  SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE  1                          A88
1101  SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE  2
1102  SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE  3
1103  SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE  4
1104  SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE  5
1105  SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE  6
1106  SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE  7
1107  SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE  8
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1108	SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE 9	
1109	SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE 10	
1110	SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE 11	
1111	SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE 12	
1112	SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE 13	
1113	SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE 14	
1114	SUPPLY SQ. MILITARY PERCENT ASSIGNED - BASE 15	
1115	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 1	A89
1116	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 2	
1117	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 3	
1118	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 4	
1119	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 5	
1120	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 6	
1121	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 7	
1122	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 8	
1123	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 9	
1124	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 10	
1125	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 11	
1126	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 12	
1127	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 13	
1128	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 14	
1129	FIELD TRNG. SQ. PERSONNEL REQUIRED - BASE 15	
1130	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 1	A90
1131	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 2	
1132	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 3	
1133	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 4	
1134	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 5	
1135	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 6	
1136	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 7	
1137	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 8	
1138	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 9	
1139	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 10	
1140	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 11	
1141	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 12	
1142	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 13	
1143	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 14	
1144	FIELD TRNG. SQ. PERS. PERCENT OFFICERS - BASE 15	
1145	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 1	A91
1146	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 2	
1147	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 3	
1148	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 4	
1149	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 5	
1150	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 6	
1151	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 7	
1152	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 8	
1153	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 9	
1154	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 10	
1155	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 11	
1156	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 12	
1157	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 13	
1158	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 14	
1159	FIELD TRNG. SQ. PERS. PERCENT AIRMEN - BASE 15	
1160	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 1	A93
1161	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 2	
1162	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 3	
1163	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 4	
1164	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 5	
1165	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 6	
1166	FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 7	

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1167  FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE  8
1168  FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE  9
1169  FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 10
1170  FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 11
1171  FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 12
1172  FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 13
1173  FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 14
1174  FIELD TRNG. SQ. MILITARY PERCENT ASSIGNED - BASE 15
1175  SUPPORT SQ. PERSONNEL REQUIRED - BASE  1                          A94
1176  SUPPORT SQ. PERSONNEL REQUIRED - BASE  2
1177  SUPPORT SQ. PERSONNEL REQUIRED - BASE  3
1178  SUPPORT SQ. PERSONNEL REQUIRED - BASE  4
1179  SUPPORT SQ. PERSONNEL REQUIRED - BASE  5
1180  SUPPORT SQ. PERSONNEL REQUIRED - BASE  6
1181  SUPPORT SQ. PERSONNEL REQUIRED - BASE  7
1182  SUPPORT SQ. PERSONNEL REQUIRED - BASE  8
1183  SUPPORT SQ. PERSONNEL REQUIRED - BASE  9
1184  SUPPORT SQ. PERSONNEL REQUIRED - BASE 10
1185  SUPPORT SQ. PERSONNEL REQUIRED - BASE 11
1186  SUPPORT SQ. PERSONNEL REQUIRED - BASE 12
1187  SUPPORT SQ. PERSONNEL REQUIRED - BASE 13
1188  SUPPORT SQ. PERSONNEL REQUIRED - BASE 14
1189  SUPPORT SQ. PERSONNEL REQUIRED - BASE 15
1190  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE  1                      A95
1191  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE  2
1192  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE  3
1193  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE  4
1194  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE  5
1195  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE  6
1196  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE  7
1197  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE  8
1198  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE  9
1199  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE 10
1200  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE 11
1201  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE 12
1202  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE 13
1203  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE 14
1204  SUPPORT SQ. PERS. PERCENT OFFICERS - BASE 15
1205  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE  1                        A96
1206  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE  2
1207  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE  3
1208  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE  4
1209  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE  5
1210  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE  6
1211  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE  7
1212  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE  8
1213  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE  9
1214  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE 10
1215  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE 11
1216  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE 12
1217  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE 13
1218  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE 14
1219  SUPPORT SQ. PERS. PERCENT AIRMEN - BASE 15
1220  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE  1                   A98
1221  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE  2
1222  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE  3
1223  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE  4
1224  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE  5
1225  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE  6
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1226  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE  7
1227  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE  8
1228  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE  9
1229  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE 10
1230  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE 11
1231  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE 12
1232  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE 13
1233  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE 14
1234  SUPPORT SQ. MILITARY PERCENT ASSIGNED - BASE 15
1235  SUPPORT TENANT PERSONNEL REQUIRED - BASE  1                        A99
1236  SUPPORT TENANT PERSONNEL REQUIRED - BASE  2
1237  SUPPORT TENANT PERSONNEL REQUIRED - BASE  3
1238  SUPPORT TENANT PERSONNEL REQUIRED - BASE  4
1239  SUPPORT TENANT PERSONNEL REQUIRED - BASE  5
1240  SUPPORT TENANT PERSONNEL REQUIRED - BASE  6
1241  SUPPORT TENANT PERSONNEL REQUIRED - BASE  7
1242  SUPPORT TENANT PERSONNEL REQUIRED - BASE  8
1243  SUPPORT TENANT PERSONNEL REQUIRED - BASE  9
1244  SUPPORT TENANT PERSONNEL REQUIRED - BASE 10
1245  SUPPORT TENANT PERSONNEL REQUIRED - BASE 11
1246  SUPPORT TENANT PERSONNEL REQUIRED - BASE 12
1247  SUPPORT TENANT PERSONNEL REQUIRED - BASE 13
1248  SUPPORT TENANT PERSONNEL REQUIRED - BASE 14
1249  SUPPORT TENANT PERSONNEL REQUIRED - BASE 15
1250  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE  1                A100
1251  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE  2
1252  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE  3
1253  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE  4
1254  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE  5
1255  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE  6
1256  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE  7
1257  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE  8
1258  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE  9
1259  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE 10
1260  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE 11
1261  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE 12
1262  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE 13
1263  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE 14
1264  SUPPORT TENANT PERSONNEL PERCENT OFFICERS - BASE 15
1265  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE  1                  A101
1266  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE  2
1267  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE  3
1268  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE  4
1269  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE  5
1270  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE  6
1271  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE  7
1272  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE  8
1273  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE  9
1274  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE 10
1275  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE 11
1276  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE 12
1277  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE 13
1278  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE 14
1279  SUPPORT TENANT PERSONNEL PERCENT AIRMEN - BASE 15
1280  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE  1                 A103
1281  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE  2
1282  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE  3
1283  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE  4
1284  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE  5
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1285  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE  6
1286  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE  7
1287  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE  8
1288  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE  9
1289  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE 10
1290  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE 11
1291  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE 12
1292  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE 13
1293  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE 14
1294  SUPPORT TENANT MILITARY PERCENT ASSIGNED - BASE 15
1295  AIR BASE GP. PERSONNEL CONSTANT - BASE  1                         A202
1296  AIR BASE GP. PERSONNEL CONSTANT - BASE  2
1297  AIR BASE GP. PERSONNEL CONSTANT - BASE  3
1298  AIR BASE GP. PERSONNEL CONSTANT - BASE  4
1299  AIR BASE GP. PERSONNEL CONSTANT - BASE  5
1300  AIR BASE GP. PERSONNEL CONSTANT - BASE  6
1301  AIR BASE GP. PERSONNEL CONSTANT - BASE  7
1302  AIR BASE GP. PERSONNEL CONSTANT - BASE  8
1303  AIR BASE GP. PERSONNEL CONSTANT - BASE  9
1304  AIR BASE GP. PERSONNEL CONSTANT - BASE 10
1305  AIR BASE GP. PERSONNEL CONSTANT - BASE 11
1306  AIR BASE GP. PERSONNEL CONSTANT - BASE 12
1307  AIR BASE GP. PERSONNEL CONSTANT - BASE 13
1308  AIR BASE GP. PERSONNEL CONSTANT - BASE 14
1309  AIR BASE GP. PERSONNEL CONSTANT - BASE 15
1310  AIR BASE GP. PERSONNEL/OPER.,MAINT.,ADMIN.                        A203
1311  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE  1                 A204
1312  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE  2
1313  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE  3
1314  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE  4
1315  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE  5
1316  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE  6
1317  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE  7
1318  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE  8
1319  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE  9
1320  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE 10
1321  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE 11
1322  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE 12
1323  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE 13
1324  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE 14
1325  AIR BASE GP. PERSONNEL PERCENT OFFICERS - BASE 15
1326  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE  1                   A205
1327  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE  2
1328  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE  3
1329  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE  4
1330  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE  5
1331  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE  6
1332  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE  7
1333  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE  8
1334  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE  9
1335  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE 10
1336  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE 11
1337  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE 12
1338  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE 13
1339  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASF 14
1340  AIR BASE GP. PERSONNEL PERCENT AIRMEN - BASE 15
1341  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE  1                  A207
1342  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE  2
1343  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE  3
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1344  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE  4
1345  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE  5
1346  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE  6
1347  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE  7
1348  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE  8
1349  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE  9
1350  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE 10
1351  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE 11
1352  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE 12
1353  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE 13
1354  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE 14
1355  AIR BASE GP. MILITARY PERCENT ASSIGNED - BASE 15
1356  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE  1                  A208
1357  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE  2
1358  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE  3
1359  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE  4
1360  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE  5
1361  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE  6
1362  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE  7
1363  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE  8
1364  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE  9
1365  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE 10
1366  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE 11
1367  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE 12
1368  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE 13
1369  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE 14
1370  HOSPITAL (DISPENSARY) PERSONNEL CONSTANT - BASE 15
1371  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE  1            A209
1372  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE  2
1373  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE  3
1374  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE  4
1375  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE  5
1376  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE  6
1377  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE  7
1378  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE  8
1379  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE  9
1380  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE 10
1381  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE 11
1382  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE 12
1383  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE 13
1384  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE 14
1385  HOSPITAL (DISPENSARY) PERSONNEL/OTHER MILITARY - BASE 15
1386  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE  1          A210
1387  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE  2
1388  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE  3
1389  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE  4
1390  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE  5
1391  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE  6
1392  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE  7
1393  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE  8
1394  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE  9
1395  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE 10
1396  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE 11
1397  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE 12
1398  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE 13
1399  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE 14
1400  HOSPITAL (DISPENSARY) PERSONNEL PERCENT OFFICERS - BASE 15
1401  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE  1            A211
1402  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE  2
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1403  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE  3
1404  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE  4
1405  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE  5
1406  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE  6
1407  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE  7
1408  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE  8
1409  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE  9
1410  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 10
1411  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 11
1412  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 12
1413  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 13
1414  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 14
1415  HOSPITAL (DISPENSARY) PERSONNEL PERCENT AIRMEN - BASE 15
1416  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE  1                A213
1417  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE  2
1418  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE  3
1419  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE  4
1420  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE  5
1421  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE  6
1422  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE  7
1423  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE  8
1424  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE  9
1425  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 10
1426  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 11
1427  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 12
1428  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 13
1429  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 14
1430  HOSPITAL (DISPENSARY) MILITARY PERCENT ASSIGNED - BASE 15

TYPE 5

1461  AIRCRAFT UTILIZATION RATE (FLY HR/MO./ACFT) - PHASE 1                    A104
1462  AIRCRAFT UTILIZATION RATE (FLY HR/MO./ACFT) - PHASE 2
1463  AIRCRAFT UTILIZATION RATE (FLY HR/MO./ACFT) - PHASE 3
1464  AIRCRAFT ON HAND FIRST YEAR - PHASE 1                                    A110
1465  AIRCRAFT ON HAND FIRST YEAR - PHASE 2
1466  AIRCRAFT ON HAND FIRST YEAR - PHASE 3
1467  AIRCRAFT PROCURED THROUGHPUT - PHASE 1                                   A111
1468  AIRCRAFT PROCURED THROUGHPUT - PHASE 2
1469  AIRCRAFT PROCURED THROUGHPUT - PHASE 3
1470  AIRCRAFT ATTRITION RATE/100,000 FLYING HOURS - PHASE 1                   A112
1471  AIRCRAFT ATTRITION RATE/100,000 FLYING HOURS - PHASE 2
1472  AIRCRAFT ATTRITION RATE/100,000 FLYING HOURS - PHASE 3
1473  SIMULATOR UTILIZATION RATE (HRS/DAY/SIMULATOR) - PHASE 1                 A114
1474  SIMULATOR UTILIZATION RATE (HRS/DAY/SIMULATOR) - PHASE 2
1475  SIMULATOR UTILIZATION RATE (HRS/DAY/SIMULATOR) - PHASE 3
1476  SIMULATORS ON HAND FIRST YEAR - BASE  1, PHASE 1                         A115
1477  SIMULATORS ON HAND FIRST YEAR - BASE  1, PHASE 2
1478  SIMULATORS ON HAND FIRST YEAR - BASE  1, PHASE 3
1479  SIMULATORS ON HAND FIRST YEAR - BASE  2, PHASE 1
1480  SIMULATORS ON HAND FIRST YEAR - BASE  2, PHASE 2
1481  SIMULATORS ON HAND FIRST YEAR - BASE  2, PHASE 3
1482  SIMULATORS ON HAND FIRST YEAR - BASE  3, PHASE 1
1483  SIMULATORS ON HAND FIRST YEAR - BASE  3, PHASE 2
1484  SIMULATORS ON HAND FIRST YEAR - BASE  3, PHASE 3
1485  SIMULATORS ON HAND FIRST YEAR - BASE  4, PHASE 1
1486  SIMULATORS ON HAND FIRST YEAR - BASE  4, PHASE 2
1487  SIMULATORS ON HAND FIRST YEAR - BASE  4, PHASE 3
1488  SIMULATORS ON HAND FIRST YEAR - BASE  5, PHASE 1
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1489   SIMULATORS ON HAND FIRST YEAR - BASE  5, PHASE 2
1490   SIMULATORS ON HAND FIRST YEAR - BASE  5, PHASE 3
1491   SIMULATORS ON HAND FIRST YEAR - BASE  6, PHASE 1
1492   SIMULATORS ON HAND FIRST YEAR - BASE  6, PHASE 2
1493   SIMULATORS ON HAND FIRST YEAR - BASE  6, PHASE 3
1494   SIMULATORS ON HAND FIRST YEAR - BASE  7, PHASE 1
1495   SIMULATORS ON HAND FIRST YEAR - BASE  7, PHASE 2
1496   SIMULATORS ON HAND FIRST YEAR - BASE  7, PHASE 3
1497   SIMULATORS ON HAND FIRST YEAR - BASE  8, PHASE 1
1498   SIMULATORS ON HAND FIRST YEAR - BASE  8, PHASE 2
1499   SIMULATORS ON HAND FIRST YEAR - BASE  8, PHASE 3
1500   SIMULATORS ON HAND FIRST YEAR - BASE  9, PHASE 1
1501   SIMULATORS ON HAND FIRST YEAR - BASE  9, PHASE 2
1502   SIMULATORS ON HAND FIRST YEAR - BASE  9, PHASE 3
1503   SIMULATORS ON HAND FIRST YEAR - BASE 10, PHASE 1
1504   SIMULATORS ON HAND FIRST YEAR - BASE 10, PHASE 2
1505   SIMULATORS ON HAND FIRST YEAR - BASE 10, PHASE 3
1506   SIMULATORS ON HAND FIRST YEAR - BASE 11, PHASE 1
1507   SIMULATORS ON HAND FIRST YEAR - BASE 11, PHASE 2
1508   SIMULATORS ON HAND FIRST YEAR - BASE 11, PHASE 3
1509   SIMULATORS ON HAND FIRST YEAR - BASE 12, PHASE 1
1510   SIMULATORS ON HAND FIRST YEAR - BASE 12, PHASE 2
1511   SIMULATORS ON HAND FIRST YEAR - BASE 12, PHASE 3
1512   SIMULATORS ON HAND FIRST YEAR - BASE 13, PHASE 1
1513   SIMULATORS ON HAND FIRST YEAR - BASE 13, PHASE 2
1514   SIMULATORS ON HAND FIRST YEAR - BASE 13, PHASE 3
1515   SIMULATORS ON HAND FIRST YEAR - BASE 14, PHASE 1
1516   SIMULATORS ON HAND FIRST YEAR - BASE 14, PHASE 2
1517   SIMULATORS ON HAND FIRST YEAR - BASE 14, PHASE 3
1518   SIMULATORS ON HAND FIRST YEAR - BASE 15, PHASE 1
1519   SIMULATORS ON HAND FIRST YEAR - BASE 15, PHASE 2
1520   SIMULATORS ON HAND FIRST YEAR - BASE 15, PHASE 3
1521   SIMULATORS PROCURED THROUGHPUT - BASE  1, PHASE 1                A116
1522   SIMULATORS PROCURED THROUGHPUT - BASE  1, PHASE 2
1523   SIMULATORS PROCURED THROUGHPUT - BASE  1, PHASE 3
1524   SIMULATORS PROCURED THROUGHPUT - BASE  2, PHASE 1
1525   SIMULATORS PROCURED THROUGHPUT - BASE  2, PHASE 2
1526   SIMULATORS PROCURED THROUGHPUT - BASE  2, PHASE 3
1527   SIMULATORS PROCURED THROUGHPUT - BASE  3, PHASE 1
1528   SIMULATORS PROCURED THROUGHPUT - BASE  3, PHASE 2
1529   SIMULATORS PROCURED THROUGHPUT - BASE  3, PHASE 3
1530   SIMULATORS PROCURED THROUGHPUT - BASE  4, PHASE 1
1531   SIMULATORS PROCURED THROUGHPUT - BASE  4, PHASE 2
1532   SIMULATORS PROCURED THROUGHPUT - BASE  4, PHASE 3
1533   SIMULATORS PROCURED THROUGHPUT - BASE  5, PHASE 1
1534   SIMULATORS PROCURED THROUGHPUT - BASE  5, PHASE 2
1535   SIMULATORS PROCURED THROUGHPUT - BASE  5, PHASE 3
1536   SIMULATORS PROCURED THROUGHPUT - BASE  6, PHASE 1
1537   SIMULATORS PROCURED THROUGHPUT - BASE  6, PHASE 2
1538   SIMULATORS PROCURED THROUGHPUT - BASE  6, PHASE 3
1539   SIMULATORS PROCURED THROUGHPUT - BASE  7, PHASE 1
1540   SIMULATORS PROCURED THROUGHPUT - BASE  7, PHASE 2
1541   SIMULATORS PROCURED THROUGHPUT - BASE  7, PHASE 3
1542   SIMULATORS PROCURED THROUGHPUT - BASE  8, PHASE 1
1543   SIMULATORS PROCURED THROUGHPUT - BASE  8, PHASE 2
1544   SIMULATORS PROCURED THROUGHPUT - BASE  8, PHASE 3
1545   SIMULATORS PROCURED THROUGHPUT - BASE  9, PHASE 1
1546   SIMULATORS PROCURED THROUGHPUT - BASE  9, PHASE 2
1547   SIMULATORS PROCURED THROUGHPUT - BASE  9, PHASE 3
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1548  SIMULATORS PROCURED THROUGHPUT - BASE 10, PHASE 1
1549  SIMULATORS PROCURED THROUGHPUT - BASE 10, PHASE 2
1550  SIMULATORS PROCURED THROUGHPUT - BASE 10, PHASE 3
1551  SIMULATORS PROCURED THROUGHPUT - BASE 11, PHASE 1
1552  SIMULATORS PROCURED THROUGHPUT - BASE 11, PHASE 2
1553  SIMULATORS PROCURED THROUGHPUT - BASE 11, PHASE 3
1554  SIMULATORS PROCURED THROUGHPUT - BASE 12, PHASE 1
1555  SIMULATORS PROCURED THROUGHPUT - BASE 12, PHASE 2
1556  SIMULATORS PROCURED THROUGHPUT - BASE 12, PHASE 3
1557  SIMULATORS PROCURED THROUGHPUT - BASE 13, PHASE 1
1558  SIMULATORS PROCURED THROUGHPUT - BASE 13, PHASE 2
1559  SIMULATORS PROCURED THROUGHPUT - BASE 13, PHASE 3
1560  SIMULATORS PROCURED THROUGHPUT - BASE 14, PHASE 1
1561  SIMULATORS PROCURED THROUGHPUT - BASE 14, PHASE 2
1562  SIMULATORS PROCURED THROUGHPUT - BASE 14, PHASE 3
1563  SIMULATORS PROCURED THROUGHPUT - BASE 15, PHASE 1
1564  SIMULATORS PROCURED THROUGHPUT - BASE 15, PHASE 2
1565  SIMULATORS PROCURED THROUGHPUT - BASE 15, PHASE 3
1566  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE  1               A225
1567  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE  2
1568  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE  3
1569  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE  4
1570  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE  5
1571  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE  6
1572  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE  7
1573  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE  8
1574  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE  9
1575  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 10
1576  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 11
1577  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 12
1578  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 13
1579  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 14
1580  RESCUE AND RECOVERY A/C IN FIRST YEAR - BASE 15
1581  SUPPORT A/C IN FIRST YEAR - BASE  1                           A201
1582  SUPPORT A/C IN FIRST YEAR - BASE  2
1583  SUPPORT A/C IN FIRST YEAR - BASE  3
1584  SUPPORT A/C IN FIRST YEAR - BASE  4
1585  SUPPORT A/C IN FIRST YEAR - BASE  5
1586  SUPPORT A/C IN FIRST YEAR - BASE  6
1587  SUPPORT A/C IN FIRST YEAR - BASE  7
1588  SUPPORT A/C IN FIRST YEAR - BASE  8
1589  SUPPORT A/C IN FIRST YEAR - BASE  9
1590  SUPPORT A/C IN FIRST YEAR - BASE 10
1591  SUPPORT A/C IN FIRST YEAR - BASE 11
1592  SUPPORT A/C IN FIRST YEAR - BASE 12
1593  SUPPORT A/C IN FIRST YEAR - BASE 13
1594  SUPPORT A/C IN FIRST YEAR - BASE 14
1595  SUPPORT A/C IN FIRST YEAR - BASE 15
1596  RESCUE AND RECOVERY A/C PROCURED - BASE  1                    A146
1597  RESCUE AND RECOVERY A/C PROCURED - BASE  2
1598  RESCUE AND RECOVERY A/C PROCURED - BASE  3
1599  RESCUE AND RECOVERY A/C PROCURED - BASE  4
1600  RESCUE AND RECOVERY A/C PROCURED - BASE  5
1601  RESCUE AND RECOVERY A/C PROCURED - BASE  6
1602  RESCUE AND RECOVERY A/C PROCURED - BASE  7
1603  RESCUE AND RECOVERY A/C PROCURED - BASE  8
1604  RESCUE AND RECOVERY A/C PROCURED - BASE  9
1605  RESCUE AND RECOVERY A/C PROCURED - BASE 10
1606  RESCUE AND RECOVERY A/C PROCURED - BASE 11
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1607 RESCUE AND RECOVERY A/C PROCURED - BASE 12
1608 RESCUE AND RECOVERY A/C PROCURED - BASE 13
1609 RESCUE AND RECOVERY A/C PROCURED - BASE 14
1610 RESCUE AND RECOVERY A/C PROCURED - BASE 15
1611 SUPPORT A/C PROCURED - BASE 1 A147
1612 SUPPORT A/C PROCURED - BASE 2
1613 SUPPORT A/C PROCURED - BASE 3
1614 SUPPORT A/C PROCURED - BASE 4
1615 SUPPORT A/C PROCURED - BASE 5
1616 SUPPORT A/C PROCURED - BASE 6
1617 SUPPORT A/C PROCURED - BASE 7
1618 SUPPORT A/C PROCURED - BASE 8
1619 SUPPORT A/C PROCURED - BASE 9
1620 SUPPORT A/C PROCURED - BASE 10
1621 SUPPORT A/C PROCURED - BASE 11
1622 SUPPORT A/C PROCURED - BASE 12
1623 SUPPORT A/C PROCURED - BASE 13
1624 SUPPORT A/C PROCURED - BASE 14
1625 SUPPORT A/C PROCURED - BASE 15
1931 NEW A/C INDICATOR - PHASE 1 (1, IF NEW, 0, IF NOT) A250
1932 NEW A/C INDICATOR - PHASE 2
1933 NEW A/C INDICATOR - PHASE 3
1934 NEW SIMULATOR INDICATOR - PHASE 1 (1, IF NEW, 0, IF NOT) A251
1935 NEW SIMULATOR INDICATOR - PHASE 2
1936 NEW SIMULATOR INDICATOR - PHASE 3

TYPE 6

1626 SQ. FT. OF SIMULATOR AREA REQUIRED/SIMULATOR - PHASE 1 A117
1627 SQ. FT. OF SIMULATOR AREA REQUIRED/SIMULATOR - PHASE 2
1628 SQ. FT. OF SIMULATOR AREA REQUIRED/SIMULATOR - PHASE 3
1629 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 1 A118
1630 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 2
1631 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 3
1632 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 4
1633 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 5
1635 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 7
1634 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 6
1636 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 8
1637 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 9
1638 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 10
1639 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 11
1640 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 12
1641 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 13
1642 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 14
1643 SQ. FT. OF SIMULATOR AREA IN FIRST YEAR - BASE 15
1644 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 1 A119
1645 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 2
1646 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 3
1647 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 4
1648 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 5
1649 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 6
1650 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 7
1651 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 8
1652 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 9
1653 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 10
1654 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 11
1655 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 12
1656 SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 13

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1657  SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 14
1658  SQ. FT. OF SIMULATOR AREA ADDED THRUPUT - BASE 15
1659  SQ. FT. OF SIMULATOR AREA REPLACED - BASE  1                     A120
1660  SQ. FT. OF SIMULATOR AREA REPLACED - BASE  2
1661  SQ. FT. OF SIMULATOR AREA REPLACED - BASE  3
1662  SQ. FT. OF SIMULATOR AREA REPLACED - BASE  4
1663  SQ. FT. OF SIMULATOR AREA REPLACED - BASE  5
1664  SQ. FT. OF SIMULATOR AREA REPLACED - BASE  6
1665  SQ. FT. OF SIMULATOR AREA REPLACED - BASE  7
1666  SQ. FT. OF SIMULATOR AREA REPLACED - BASE  8
1667  SQ. FT. OF SIMULATOR AREA REPLACED - BASE  9
1668  SQ. FT. OF SIMULATOR AREA REPLACED - BASE 10
1669  SQ. FT. OF SIMULATOR AREA REPLACED - BASE 11
1670  SQ. FT. OF SIMULATOR AREA REPLACED - BASE 12
1671  SQ. FT. OF SIMULATOR AREA REPLACED - BASE 13
1672  SQ. FT. OF SIMULATOR AREA REPLACED - BASE 14
1673  SQ. FT. OF SIMULATOR AREA REPLACED - BASE 15
1674  MINIMUM SQ. FT. OF SIMULATOR AREA ADDED                          A121
1675  SQ. FT. OF CLASSROOMS REQUIRED/STUDENT                           A122
1676  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE  1                    A123
1677  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE  2
1679  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE  4
1678  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE  3
1680  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE  5
1681  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE  6
1682  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE  7
1683  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE  8
1684  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE  9
1685  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 10
1686  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 11
1687  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 12
1688  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 13
1689  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 14
1690  SQ. FT. OF CLASSROOMS IN FIRST YEAR - BASE 15
1691  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE  1                    A124
1692  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE  2
1693  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE  3
1694  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE  4
1695  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE  5
1696  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE  6
1697  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE  7
1698  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE  8
1699  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE  9
1700  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 10
1701  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 11
1702  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 12
1703  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 13
1704  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 14
1705  SQ. FT. OF CLASSROOMS ADDED THRUPUT - BASE 15
1706  SQ. FT. OF CLASSROOMS REPLACED - BASE  1                         A125
1707  SQ. FT. OF CLASSROOMS REPLACED - BASE  2
1708  SQ. FT. OF CLASSROOMS REPLACED - BASE  3
1709  SQ. FT. OF CLASSROOMS REPLACED - BASE  4
1710  SQ. FT. OF CLASSROOMS REPLACED - BASE  5
1711  SQ. FT. OF CLASSROOMS REPLACED - BASE  6
1712  SQ. FT. OF CLASSROOMS REPLACED - BASE  7
1713  SQ. FT. OF CLASSROOMS REPLACED - BASE  8
1714  SQ. FT. OF CLASSROOMS REPLACED - BASE  9
1715  SQ. FT. OF CLASSROOMS REPLACED - BASE 10
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1716  SQ. FT. OF CLASSROOMS REPLACED - BASE 11
1717  SQ. FT. OF CLASSROOMS REPLACED - BASE 12
1718  SQ. FT. OF CLASSROOMS REPLACED - BASE 13
1719  SQ. FT. OF CLASSROOMS REPLACED - BASE 14
1720  SQ. FT. OF CLASSROOMS REPLACED - BASE 15
1721  MINIMUM SQ. FT. OF CLASSROOMS ADDED                                      A126
1722  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE  1               A127
1723  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE  2
1724  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE  3
1725  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE  4
1726  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE  5
1727  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE  6
1728  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE  7
1729  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE  8
1730  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE  9
1731  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 10
1732  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 11
1733  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 12
1734  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 13
1735  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 14
1736  SQ. FT. OF FLY. TRAIN. BASIC BLDG. IN FIRST YEAR - BASE 15
1737  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE  1               A128
1738  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE  2
1739  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE  3
1740  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE  4
1741  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE  5
1742  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE  6
1743  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE  7
1744  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE  8
1745  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE  9
1746  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 10
1747  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 11
1748  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 12
1749  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 13
1750  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 14
1751  SQ. FT. OF FLY. TRAIN. BASIC BLDG. ADDED THRUPUT - BASE 15
1752  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE  1                    A129
1753  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE  2
1754  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE  3
1755  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE  4
1756  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE  5
1757  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE  6
1758  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE  7
1759  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE  8
1760  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE  9
1761  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 10
1762  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 11
1763  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 12
1764  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 13
1765  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 14
1766  SQ. FT. OF FLY. TRAIN. BASIC BLDG. REPLACED - BASE 15
1767  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE  1                           A130
1768  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE  2
1769  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE  3
1770  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE  4
1771  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE  5
1772  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE  6
1773  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE  7
1774  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE  8
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1775  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE  9
1776  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 10
1777  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 11
1778  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 12
1779  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 13
1780  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 14
1781  AIRMEN DORMITORY UNITS IN FIRST YEAR - BASE 15
1782  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE  1                        A131
1783  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE  2
1784  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE  3
1785  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE  4
1786  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE  5
1787  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE  6
1788  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE  7
1789  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE  8
1790  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE  9
1791  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE 10
1792  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE 11
1793  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE 12
1794  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE 13
1795  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE 14
1796  AIRMEN DORMITORY UNITS ADDED THRUPUT - BASE 15
1797  AIRMEN DORMITORY UNITS REPLACED - BASE  1                             A132
1798  AIRMEN DORMITORY UNITS REPLACED - BASE  2
1799  AIRMEN DORMITORY UNITS REPLACED - BASE  3
1800  AIRMEN DORMITORY UNITS REPLACED - BASE  4
1801  AIRMEN DORMITORY UNITS REPLACED - BASE  5
1802  AIRMEN DORMITORY UNITS REPLACED - BASE  6
1803  AIRMEN DORMITORY UNITS REPLACED - BASE  7
1804  AIRMEN DORMITORY UNITS REPLACED - BASE  8
1805  AIRMEN DORMITORY UNITS REPLACED - BASE  9
1806  AIRMEN DORMITORY UNITS REPLACED - BASE 10
1807  AIRMEN DORMITORY UNITS REPLACED - BASE 11
1808  AIRMEN DORMITORY UNITS REPLACED - BASE 12
1809  AIRMEN DORMITORY UNITS REPLACED - BASE 13
1810  AIRMEN DORMITORY UNITS REPLACED - BASE 14
1811  AIRMEN DORMITORY UNITS REPLACED - BASE 15
1812  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE  1                     A133
1813  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE  2
1814  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE  3
1815  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE  4
1816  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE  5
1817  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE  6
1818  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE  7
1819  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE  8
1820  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE  9
1821  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE 10
1822  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE 11
1823  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE 12
1824  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE 13
1825  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE 14
1826  BACHELOR OFFICER QUARTERS IN FIRST YEAR - BASE 15
1827  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE  1                     A134
1828  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE  2
1829  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE  3
1830  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE  4
1831  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE  5
1832  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE  6
1833  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE  7
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1834  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE  8
1835  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE  9
1836  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE 10
1837  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE 11
1838  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE 12
1839  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE 13
1840  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE 14
1841  BACHELOR OFFICER QUARTERS ADDED THRUPUT - BASE 15
                                                                   A135
1842  BACHELOR OFFICERS QUARTERS REPLACED - BASE  1
1843  BACHELOR OFFICERS QUARTERS REPLACED - BASE  2
1844  BACHELOR OFFICERS QUARTERS REPLACED - BASE  3
1845  BACHELOR OFFICERS QUARTERS REPLACED - BASE  4
1846  BACHELOR OFFICERS QUARTERS REPLACED - BASE  5
1847  BACHELOR OFFICERS QUARTERS REPLACED - BASE  6
1848  BACHELOR OFFICERS QUARTERS REPLACED - BASE  7
1850  BACHELOR OFFICERS QUARTERS REPLACED - BASE  9
1849  BACHELOR OFFICERS QUARTERS REPLACED - BASE  8
1851  BACHELOR OFFICERS QUARTERS REPLACED - BASE 10
1852  BACHELOR OFFICERS QUARTERS REPLACED - BASE 11
1853  BACHELOR OFFICERS QUARTERS REPLACED - BASE 12
1854  BACHELOR OFFICERS QUARTERS REPLACED - BASE 13
1855  BACHELOR OFFICERS QUARTERS REPLACED - BASE 14
1856  BACHELOR OFFICERS QUARTERS REPLACED - BASE 15
                                                                   A136
1857  FAMILY HOUSING UNITS IN FIRST YEAR - BASE  1
1858  FAMILY HOUSING UNITS IN FIRST YEAR - BASE  2
1859  FAMILY HOUSING UNITS IN FIRST YEAR - BASE  3
1860  FAMILY HOUSING UNITS IN FIRST YEAR - BASE  4
1861  FAMILY HOUSING UNITS IN FIRST YEAR - BASE  5
1862  FAMILY HOUSING UNITS IN FIRST YEAR - BASE  6
1863  FAMILY HOUSING UNITS IN FIRST YEAR - BASE  7
1864  FAMILY HOUSING UNITS IN FIRST YEAR - BASE  8
1865  FAMILY HOUSING UNITS IN FIRST YEAR - BASE  9
1866  FAMILY HOUSING UNITS IN FIRST YEAR - BASE 10
1867  FAMILY HOUSING UNITS IN FIRST YEAR - BASE 11
1868  FAMILY HOUSING UNITS IN FIRST YEAR - BASE 12
1869  FAMILY HOUSING UNITS IN FIRST YEAR - BASE 13
1870  FAMILY HOUSING UNITS IN FIRST YEAR - BASE 14
1871  FAMILY HOUSING UNITS IN FIRST YEAR - BASE 15
                                                                   A137
1872  FAMILY HOUSING UNITS ADDED THRUPUT - BASE  1
1873  FAMILY HOUSING UNITS ADDED THRUPUT - BASE  2
1874  FAMILY HOUSING UNITS ADDED THRUPUT - BASE  3
1875  FAMILY HOUSING UNITS ADDED THRUPUT - BASE  4
1876  FAMILY HOUSING UNITS ADDED THRUPUT - BASE  5
1877  FAMILY HOUSING UNITS ADDED THRUPUT - BASE  6
1878  FAMILY HOUSING UNITS ADDED THRUPUT - BASE  7
1879  FAMILY HOUSING UNITS ADDED THRUPUT - BASE  8
1880  FAMILY HOUSING UNITS ADDED THRUPUT - BASE  9
1881  FAMILY HOUSING UNITS ADDED THRUPUT - BASE 10
1882  FAMILY HOUSING UNITS ADDED THRUPUT - BASE 11
1883  FAMILY HOUSING UNITS ADDED THRUPUT - BASE 12
1884  FAMILY HOUSING UNITS ADDED THRUPUT - BASE 13
1885  FAMILY HOUSING UNITS ADDED THRUPUT - BASE 14
1886  FAMILY HOUSING UNITS ADDED THRUPUT - BASE 15
                                                                   A138
1887  FAMILY HOUSING UNITS REPLACED - BASE  1
1888  FAMILY HOUSING UNITS REPLACED - BASE  2
1889  FAMILY HOUSING UNITS REPLACED - BASE  3
1890  FAMILY HOUSING UNITS REPLACED - BASE  4
1891  FAMILY HOUSING UNITS REPLACED - BASE  5
1892  FAMILY HOUSING UNITS REPLACED - BASE  6
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1893  FAMILY HOUSING UNITS REPLACED - BASE  7
1894  FAMILY HOUSING UNITS REPLACED - BASE  8
1895  FAMILY HOUSING UNITS REPLACED - BASE  9
1896  FAMILY HOUSING UNITS REPLACED - BASE 10
1897  FAMILY HOUSING UNITS REPLACED - BASE 11
1898  FAMILY HOUSING UNITS REPLACED - BASE 12
1899  FAMILY HOUSING UNITS REPLACED - BASE 13
1900  FAMILY HOUSING UNITS REPLACED - BASE 14
1901  FAMILY HOUSING UNITS REPLACED - BASE 15


TYPE 7


1902  RDT AND E COST THRUPUT - PHASE 1   (IN MILLIONS)                           A139
1903  RDT AND E COST THRUPUT - PHASE 2   (IN MILLIONS)
1904  RDT AND E COST THRUPUT - PHASE 3   (IN MILLIONS)
1905  AIRCRAFT FIRST UNIT COST - PHASE 1  (IN THOUSANDS)                         A140
1906  AIRCRAFT FIRST UNIT COST - PHASE 2  (IN THOUSANDS)
1907  AIRCRAFT FIRST UNIT COST - PHASE 3  (IN THOUSANDS)
1908  AIRCRAFT COST CURVE SLOPE - PHASE 1                                        A141
1909  AIRCRAFT COST CURVE SLOPE - PHASE 2
1910  AIRCRAFT COST CURVE SLOPE - PHASE 3
1911  AIRCRAFT LAST BUY QUANTITY - PHASE 1                                       A142
1912  AIRCRAFT LAST BUY QUANTITY - PHASE 2
1913  AIRCRAFT LAST BUY QUANTITY - PHASE 3
1914  A/C INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 1               A143
1915  A/C INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 2
1916  A/C INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 3
1917  A/C AGE COST PERCENT OF INVESTMENT COST - PHASE 1                          A144
1918  A/C AGE COST PERCENT OF INVESTMENT COST - PHASE 2
1919  A/C AGE COST PERCENT OF INVESTMENT COST - PHASE 3
1920  INVESTMENT COST PER RESCUE AND RECOVERY A/C    (IN THOUSANDS)              A145
1921  INVESTMENT COST PER SUPPORT A/C      (IN THOUSANDS)                        A148
1922  INVESTMENT COST PER SIMULATOR - PHASE 1     (IN THOUSANDS)                 A149
1923  INVESTMENT COST PER SIMULATOR - PHASE 2     (IN THOUSANDS)
1924  INVESTMENT COST PER SIMULATOR - PHASE 3     (IN THOUSANDS)
1925  SIMULATOR INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 1         A152
1926  SIMULATOR INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 2
1927  SIMULATOR INITIAL SPARES COST PERCENT OF INVESTMENT COST - PHASE 3
1928  RECURRING MODIFICATIONS COST/AIRCRAFT FLYAWAY COST - PHASE 1               A230
1929  RECURRING MODIFICATIONS COST/AIRCRAFT FLYAWAY COST - PHASE 2
1930  RECURRING MODIFICATIONS COST/AIRCRAFT FLYAWAY COST - PHASE 3
1937  BASE SUPPORT EQUIPMENT COST/MILITARY INCREASE                              A153
1938  TRAINING EQUIPMENT COST/STUDENT INCREASE                                   A154
1939  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  1, PHASE 1                     A155
1940  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  1, PHASE 2
1941  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  1, PHASE 3
1942  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  2, PHASE 1
1943  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  2, PHASE 2
1944  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  2, PHASE 3
1945  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  3, PHASE 1
1946  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  3, PHASE 2
1947  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  3, PHASE 3
1948  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  4, PHASE 1
1949  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  4, PHASE 2
1950  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  4, PHASE 3
1951  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  5, PHASE 1
1952  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  5, PHASE 2
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1953  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  5, PHASE 3
1954  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  6, PHASE 1
1955  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  6, PHASE 2
1956  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  6, PHASE 3
1957  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  7, PHASE 1
1958  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  7, PHASE 2
1959  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  7, PHASE 3
1960  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  8, PHASE 1
1961  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  8, PHASE 2
1962  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  8, PHASE 3
1963  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  9, PHASE 1
1964  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  9, PHASE 2
1965  OFFICERS IN BEGINNING OF FIRST YEAR - BASE  9, PHASE 3
1966  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 10, PHASE 1
1967  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 10, PHASE 2
1968  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 10, PHASE 3
1969  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 11, PHASE 1
1970  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 11, PHASE 2
1971  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 11, PHASE 3
1972  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 12, PHASE 1
1973  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 12, PHASE 2
1974  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 12, PHASE 3
1975  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 13, PHASE 1
1976  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 13, PHASE 2
1977  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 13, PHASE 3
1978  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 14, PHASE 1
1979  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 14, PHASE 2
1980  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 14, PHASE 3
1981  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 15, PHASE 1
1982  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 15, PHASE 2
1983  OFFICERS IN BEGINNING OF FIRST YEAR - BASE 15, PHASE 3
1984  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  1, PHASE 1                A156
1985  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  1, PHASE 2
1986  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  1, PHASE 3
1987  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  2, PHASE 1
1988  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  2, PHASE 2
1989  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  2, PHASE 3
1990  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  3, PHASE 1
1991  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  3, PHASE 2
1992  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  3, PHASE 3
1993  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  4, PHASE 1
1994  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  4, PHASE 2
1995  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  4, PHASE 3
1996  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  5, PHASE 1
1997  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  5, PHASE 2
1998  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  5, PHASE 3
1999  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  6, PHASE 1
2000  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  6, PHASE 2
2001  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  6, PHASE 3
2002  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  7, PHASE 1
2003  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  7, PHASE 2
2004  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  7, PHASE 3
2005  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  8, PHASE 1
2006  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  8, PHASE 2
2007  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  8, PHASE 3
2008  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  9, PHASE 1
2009  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  9, PHASE 2
2010  AIRMEN IN BEGINNING OF FIRST YEAR - BASE  9, PHASE 3
2011  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 10, PHASE 1
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2012  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 10, PHASE 2
2013  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 10, PHASE 3
2014  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 11, PHASE 1
2015  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 11, PHASE 2
2016  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 11, PHASE 3
2017  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 12, PHASE 1
2018  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 12, PHASE 2
2019  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 12, PHASE 3
2020  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 13, PHASE 1
2021  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 13, PHASE 2
2022  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 13, PHASE 3
2023  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 14, PHASE 1
2024  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 14, PHASE 2
2025  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 14, PHASE 3
2026  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 15, PHASE 1
2027  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 15, PHASE 2
2028  AIRMEN IN BEGINNING OF FIRST YEAR - BASE 15, PHASE 3
2029  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE  1         A157
2030  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE  2
2031  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE  3
2032  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE  4
2033  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE  5
2034  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE  6
2035  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE  7
2036  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE  8
2037  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE  9
2038  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE 10
2039  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE 11
2040  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE 12
2041  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE 13
2042  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE 14
2043  OFFICERS IN BEGINNING OF FIRST YEAR, NO PHASE - BASE 15
2044  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE  1            A158
2045  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE  2
2046  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE  3
2047  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE  4
2048  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE  5
2049  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE  6
2050  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE  7
2051  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE  8
2052  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE  9
2053  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE 10
2054  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE 11
2055  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE 12
2056  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE 13
2057  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE 14
2058  AIRMEN IN BEGINNING OF FIRST YEAR,NO PHASE - BASE 15
2059  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  1, PHASE 1          A159
2060  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  1, PHASE 2
2061  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  1, PHASE 3
2062  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  2, PHASE 1
2063  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  2, PHASE 2
2064  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  2, PHASE 3
2065  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  3, PHASE 1
2066  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  3, PHASE 2
2067  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  3, PHASE 3
2068  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  4, PHASE 1
2069  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  4, PHASE 2
2070  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  4, PHASE 3
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2071  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  5, PHASE 1
2072  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  5, PHASE 2
2073  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  5, PHASE 3
2074  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  6, PHASE 1
2075  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  6, PHASE 2
2076  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  6, PHASE 3
2077  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  7, PHASE 1
2078  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  7, PHASE 2
2079  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  7, PHASE 3
2080  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  8, PHASE 1
2081  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  8, PHASE 2
2082  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  8, PHASE 3
2083  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  9, PHASE 1
2084  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  9, PHASE 2
2085  STUDENTS IN BEGINNING OF FIRST YEAR - BASE  9, PHASE 3
2086  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 10, PHASE 1
2087  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 10, PHASE 2
2088  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 10, PHASE 3
2089  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 11, PHASE 1
2090  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 11, PHASE 2
2091  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 11, PHASE 3
2092  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 12, PHASE 1
2093  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 12, PHASE 2
2094  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 12, PHASE 3
2095  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 13, PHASE 1
2096  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 13, PHASE 2
2097  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 13, PHASE 3
2098  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 14, PHASE 1
2099  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 14, PHASE 2
2100  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 14, PHASE 3
2101  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 15, PHASE 1
2102  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 15, PHASE 2
2103  STUDENTS IN BEGINNING OF FIRST YEAR - BASE 15, PHASE 3
2104  STOCKS COST/MILITARY INCREASE                                           A160
2105  TRAINING COST/OFFICER                                                   A161
2106  TRAVEL COST/OFFICER                                                     A162
2107  TRAINING COST/AIRMEN                                                    A163
2108  TRAVEL COST/AIRMEN                                                      A164
2109
2110
2111
2112
2113
2114
2115
2116
2117
2118
2119
2120
2121
2122
2123
2124
2125
2126
2127
2128
2129  RUNWAY INVESTMENT COST THRUPUT - BASE  1, PHASE 1  (IN THOUSANDS)       A165
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2130  RUNWAY INVESTMENT COST THRUPUT - BASE  1, PHASE 2
2131  RUNWAY INVESTMENT COST THRUPUT - BASE  1, PHASE 3
2132  RUNWAY INVESTMENT COST THRUPUT - BASE  2, PHASE 1
2133  RUNWAY INVESTMENT COST THRUPUT - BASE  2, PHASE 2
2134  RUNWAY INVESTMENT COST THRUPUT - BASE  2, PHASE 3
2135  RUNWAY INVESTMENT COST THRUPUT - BASE  3, PHASE 1
2136  RUNWAY INVESTMENT COST THRUPUT - BASE  3, PHASE 2
2137  RUNWAY INVESTMENT COST THRUPUT - BASE  3, PHASE 3
2138  RUNWAY INVESTMENT COST THRUPUT - BASE  4, PHASE 1
2139  RUNWAY INVESTMENT COST THRUPUT - BASE  4, PHASE 2
2140  RUNWAY INVESTMENT COST THRUPUT - BASE  4, PHASE 3
2141  RUNWAY INVESTMENT COST THRUPUT - BASE  5, PHASE 1
2142  RUNWAY INVESTMENT COST THRUPUT - BASE  5, PHASE 2
2143  RUNWAY INVESTMENT COST THRUPUT - BASE  5, PHASE 3
2144  RUNWAY INVESTMENT COST THRUPUT - BASE  6, PHASE 1
2145  RUNWAY INVESTMENT COST THRUPUT - BASE  6, PHASE 2
2146  RUNWAY INVESTMENT COST THRUPUT - BASE  6, PHASE 3
2147  RUNWAY INVESTMENT COST THRUPUT - BASE  7, PHASE 1
2148  RUNWAY INVESTMENT COST THRUPUT - BASE  7, PHASE 2
2149  RUNWAY INVESTMENT COST THRUPUT - BASE  7, PHASE 3
2150  RUNWAY INVESTMENT COST THRUPUT - BASE  8, PHASE 1
2151  RUNWAY INVESTMENT COST THRUPUT - BASE  8, PHASE 2
2152  RUNWAY INVESTMENT COST THRUPUT - BASE  8, PHASE 3
2153  RUNWAY INVESTMENT COST THRUPUT - BASE  9, PHASE 1
2154  RUNWAY INVESTMENT COST THRUPUT - BASE  9, PHASE 2
2155  RUNWAY INVESTMENT COST THRUPUT - BASE  9, PHASE 3
2156  RUNWAY INVESTMENT COST THRUPUT - BASE 10, PHASE 1
2157  RUNWAY INVESTMENT COST THRUPUT - BASE 10, PHASE 2
2158  RUNWAY INVESTMENT COST THRUPUT - BASE 10, PHASE 3
2159  RUNWAY INVESTMENT COST THRUPUT - BASE 11, PHASE 1
2160  RUNWAY INVESTMENT COST THRUPUT - BASE 11, PHASE 2
2161  RUNWAY INVESTMENT COST THRUPUT - BASE 11, PHASE 3
2162  RUNWAY INVESTMENT COST THRUPUT - BASE 12, PHASE 1
2163  RUNWAY INVESTMENT COST THRUPUT - BASE 12, PHASE 2
2164  RUNWAY INVESTMENT COST THRUPUT - BASE 12, PHASE 3
2165  RUNWAY INVESTMENT COST THRUPUT - BASE 13, PHASE 1
2166  RUNWAY INVESTMENT COST THRUPUT - BASE 13, PHASE 2
2167  RUNWAY INVESTMENT COST THRUPUT - BASE 13, PHASE 3
2168  RUNWAY INVESTMENT COST THRUPUT - BASE 14, PHASE 1
2169  RUNWAY INVESTMENT COST THRUPUT - BASE 14, PHASE 2
2170  RUNWAY INVESTMENT COST THRUPUT - BASE 14, PHASE 3
2171  RUNWAY INVESTMENT COST THRUPUT - BASE 15, PHASE 1
2172  RUNWAY INVESTMENT COST THRUPUT - BASE 15, PHASE 2
2173  RUNWAY INVESTMENT COST THRUPUT - BASE 15, PHASE 3
2174  COST PER RUNWAY ADDED BY MODEL - BASE  1, PHASE 1  (IN THOUSANDS)     A166
2175  COST PER RUNWAY ADDED BY MODEL - BASE  1, PHASE 2
2176  COST PER RUNWAY ADDED BY MODEL - BASE  1, PHASE 3
2177  COST PER RUNWAY ADDED BY MODEL - BASE  2, PHASE 1
2178  COST PER RUNWAY ADDED BY MODEL - BASE  2, PHASE 2
2179  COST PER RUNWAY ADDED BY MODEL - BASE  2, PHASE 3
2180  COST PER RUNWAY ADDED BY MODEL - BASE  3, PHASE 1
2181  COST PER RUNWAY ADDED BY MODEL - BASE  3, PHASE 2
2182  COST PER RUNWAY ADDED BY MODEL - BASE  3, PHASE 3
2183  COST PER RUNWAY ADDED BY MODEL - BASE  4, PHASE 1
2184  COST PER RUNWAY ADDED BY MODEL - BASE  4, PHASE 2
2185  COST PER RUNWAY ADDED BY MODEL - BASE  4, PHASE 3
2186  COST PER RUNWAY ADDED BY MODEL - BASE  5, PHASE 1
2187  COST PER RUNWAY ADDED BY MODEL - BASE  5, PHASE 2
2188  COST PER RUNWAY ADDED BY MODEL - BASE  5, PHASE 3
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2189   COST PER RUNWAY ADDED BY MODEL - BASE  6, PHASE 1
2190   COST PER RUNWAY ADDED BY MODEL - BASE  6, PHASE 2
2191   COST PER RUNWAY ADDED BY MODEL - BASE  6, PHASE 3
2192   COST PER RUNWAY ADDED BY MODEL - BASE  7, PHASE 1
2193   COST PER RUNWAY ADDED BY MODEL - BASE  7, PHASE 2
2194   COST PER RUNWAY ADDED BY MODEL - BASE  7, PHASE 3
2195   COST PER RUNWAY ADDED BY MODEL - BASE  8, PHASE 1
2196   COST PER RUNWAY ADDED BY MODEL - BASE  8, PHASE 2
2197   COST PER RUNWAY ADDED BY MODEL - BASE  8, PHASE 3
2198   COST PER RUNWAY ADDED BY MODEL - BASE  9, PHASE 1
2199   COST PER RUNWAY ADDED BY MODEL - BASE  9, PHASE 2
2200   COST PER RUNWAY ADDED BY MODEL - BASE  9, PHASE 3
2201   COST PER RUNWAY ADDED BY MODEL - BASE 10, PHASE 1
2202   COST PER RUNWAY ADDED BY MODEL - BASE 10, PHASE 2
2203   COST PER RUNWAY ADDED BY MODEL - BASE 10, PHASE 3
2204   COST PER RUNWAY ADDED BY MODEL - BASE 11, PHASE 1
2205   COST PER RUNWAY ADDED BY MODEL - BASE 11, PHASE 2
2206   COST PER RUNWAY ADDED BY MODEL - BASE 11, PHASE 3
2207   COST PER RUNWAY ADDED BY MODEL - BASE 12, PHASE 1
2208   COST PER RUNWAY ADDED BY MODEL - BASE 12, PHASE 2
2209   COST PER RUNWAY ADDED BY MODEL - BASE 12, PHASE 3
2210   COST PER RUNWAY ADDED BY MODEL - BASE 13, PHASE 1
2211   COST PER RUNWAY ADDED BY MODEL - BASE 13, PHASE 2
2212   COST PER RUNWAY ADDED BY MODEL - BASE 13, PHASE 3
2213   COST PER RUNWAY ADDED BY MODEL - BASE 14, PHASE 1
2214   COST PER RUNWAY ADDED BY MODEL - BASE 14, PHASE 2
2215   COST PER RUNWAY ADDED BY MODEL - BASE 14, PHASE 3
2216   COST PER RUNWAY ADDED BY MODEL - BASE 15, PHASE 1
2217   COST PER RUNWAY ADDED BY MODEL - BASE 15, PHASE 2
2218   COST PER RUNWAY ADDED BY MODEL - BASE 15, PHASE 3
2219   COST OF UPT BASE ADDED BY MODEL - BASE  1   (IN THOUSANDS)              A167
2220   COST OF UPT BASE ADDED BY MODEL - BASE  2
2221   COST OF UPT BASE ADDED BY MODEL - BASE  3
2222   COST OF UPT BASE ADDED BY MODEL - BASE  4
2223   COST OF UPT BASE ADDED BY MODEL - BASE  5
2224   COST OF UPT BASE ADDED BY MODEL - BASE  6
2225   COST OF UPT BASE ADDED BY MODEL - BASE  7
2226   COST OF UPT BASE ADDED BY MODEL - BASE  8
2227   COST OF UPT BASE ADDED BY MODEL - BASE  9
2228   COST OF UPT BASE ADDED BY MODEL - BASE 10
2229   COST OF UPT BASE ADDED BY MODEL - BASE 11
2230   COST OF UPT BASE ADDED BY MODEL - BASE 12
2231   COST OF UPT BASE ADDED BY MODEL - BASE 13
2232   COST OF UPT BASE ADDED BY MODEL - BASE 14
2233   COST OF UPT BASE ADDED BY MODEL - BASE 15
2234   ADDITIONAL BASE COST THRUPUT - BASE  1        (IN THOUSANDS)              A168
2235   ADDITIONAL BASE COST THRUPUT - BASE  2
2236   ADDITIONAL BASE COST THRUPUT - BASE  3
2237   ADDITIONAL BASE COST THRUPUT - BASE  4
2238   ADDITIONAL BASE COST THRUPUT - BASE  5
2239   ADDITIONAL BASE COST THRUPUT - BASE  6
2240   ADDITIONAL BASE COST THRUPUT - BASE  7
2241   ADDITIONAL BASE COST THRUPUT - BASE  8
2242   ADDITIONAL BASE COST THRUPUT - BASE  9
2243   ADDITIONAL BASE COST THRUPUT - BASE 10
2244   ADDITIONAL BASE COST THRUPUT - BASE 11
2245   ADDITIONAL BASE COST THRUPUT - BASE 12
2246   ADDITIONAL BASE COST THRUPUT - BASE 13
2247   ADDITIONAL BASE COST THRUPUT - BASE 14
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2248  ADDITIONAL BASE COST THRUPUT - BASE 15
2249  CLASSROOM INVESTMENT COST THRUPUT - BASE  1   (IN THOUSANDS)           A169
2250  CLASSROOM INVESTMENT COST THRUPUT - BASE  2
2251  CLASSROOM INVESTMENT COST THRUPUT - BASE  3
2252  CLASSROOM INVESTMENT COST THRUPUT - BASE  4
2253  CLASSROOM INVESTMENT COST THRUPUT - BASE  5
2254  CLASSROOM INVESTMENT COST THRUPUT - BASE  6
2255  CLASSROOM INVESTMENT COST THRUPUT - BASE  7
2256  CLASSROOM INVESTMENT COST THRUPUT - BASE  8
2257  CLASSROOM INVESTMENT COST THRUPUT - BASE  9
2258  CLASSROOM INVESTMENT COST THRUPUT - BASE 10
2259  CLASSROOM INVESTMENT COST THRUPUT - BASE 11
2260  CLASSROOM INVESTMENT COST THRUPUT - BASE 12
2261  CLASSROOM INVESTMENT COST THRUPUT - BASE 13
2262  CLASSROOM INVESTMENT COST THRUPUT - BASE 14
2263  CLASSROOM INVESTMENT COST THRUPUT - BASE 15
2264  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE  1  (IN THOUSANDS)       A170
2265  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE  2
2266  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE  3
2267  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE  4
2268  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE  5
2269  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE  6
2270  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE  7
2271  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE  8
2272  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE  9
2273  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE 10
2274  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE 11
2275  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE 12
2276  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE 13
2277  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE 14
2278  SIMULATOR AREA INVESTMENT COST THRUPUT - BASE 15
2279  UNIT COST ADJUSTMENT 'A' FACTOR                                         A171
2280  UNIT COST ADJUSTMENT 'B' FACTOR                                         A172
2281  UNIT COST ADJUSTMENT 'C' FACTOR                                         A173
2282  COST/SQ. FT. OF SIMULATOR AREA                                          A174
2283  COST/SQ. FT. OF CLASSROOMS                                              A175
2284  STANDARD SIZE SIMULATOR AREA                                            A176
2285  STANDARD SIZE CLASSROOM AREA                                            A177
2286  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE  1   (IN THOUSANDS)    A178
2287  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE  2
2288  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE  3
2289  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE  4
2290  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE  5
2291  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE  6
2292  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE  7
2293  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE  8
2294  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE  9
2295  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE 10
2296  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE 11
2297  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE 12
2298  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE 13
2299  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE 14
2300  OTHER FACILITIES INVESTMENT COST THRUPUT - BASE 15
2301  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE  1 (IN 1000'S)  A179
2302  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE  2
2303  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE  3
2304  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE  4
2305  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE  5
2306  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE  6
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2307  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE  7
2308  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE  8
2309  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE  9
2310  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE 10
2311  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE 11
2312  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE 12
2313  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE 13
2314  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE 14
2315  FLYING TRAIN. BASIC BLDG. INVEST. COST THRUPUT - BASE 15
2316  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE 1  (IN THOUSANDS)     A180
2317  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE 2
2318  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE 3
2319  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE 4
2320  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE 5
2321  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE 6
2322  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE 7
2323  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE 8
2324  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE 9
2325  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE10
2326  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE11
2327  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE12
2328  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE13
2329  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE14
2330  AIRMEN DORMITORY INVESTMENT COST THRUPUT - BASE15
2331  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE  1(IN 1000'S)A181
2332  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE  2
2333  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE  3
2334  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE  4
2335  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE  5
2336  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE  6
2337  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE  7
2338  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE  8
2339  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE  9
2340  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE 10
2341  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE 11
2342  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE 12
2343  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE 13
2344  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE 14
2345  BACHELOR OFFICER QUARTERS INVESTMENT COST THRUPUT - BASE 15
2346  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE  1  (IN THOUSANDS)       A182
2347  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE  2
2348  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE  3
2349  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE  4
2350  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE  5
2351  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE  6
2352  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE  7
2353  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE  8
2354  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE  9
2355  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE 10
2356  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE 11
2357  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE 12
2358  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE 13
2359  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE 14
2360  FAMILY HOUSING INVESTMENT COST THRUPUT - BASE 15
2361  PAY AND ALLOWANCE COST PER OFFICER                                    A183
2362  PAY AND ALLOWANCE COST PER AIRMEN                                     A184
2363  PAY COST PER CIVILIAN                                                 A185
2364  TURNOVER RATE PER OFFICER                                             A186
2365  TURNOVER RATE PER AIRMEN                                              A187
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2366  FACIL. O AND M COST CONSTANT - BASE  1   (IN THOUSANDS)                A188
2367  FACIL. O AND M COST CONSTANT - BASE  2
2368  FACIL. O AND M COST CONSTANT - BASE  3
2369  FACIL. O AND M COST CONSTANT - BASE  4
2370  FACIL. O AND M COST CONSTANT - BASE  5
2371  FACIL. O AND M COST CONSTANT - BASE  6
2372  FACIL. O AND M COST CONSTANT - BASE  7
2373  FACIL. O AND M COST CONSTANT - BASE  8
2374  FACIL. O AND M COST CONSTANT - BASE  9
2375  FACIL. O AND M COST CONSTANT - BASE 10
2376  FACIL. O AND M COST CONSTANT - BASE 11
2377  FACIL. O AND M COST CONSTANT - BASE 12
2378  FACIL. O AND M COST CONSTANT - BASE 13
2379  FACIL. O AND M COST CONSTANT - BASE 14
2380  FACIL. O AND M COST CONSTANT - BASE 15
2381  FACIL. O AND M COST PER MILITARY MAN                                     A189
2382  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  1, PHASE 1                 A190
2383  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  1, PHASE 2
2384  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  1, PHASE 3
2385  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  2, PHASE 1
2386  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  2, PHASE 2
2387  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  2, PHASE 3
2388  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  3, PHASE 1
2389  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  3, PHASE 2
2390  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  3, PHASE 3
2391  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  4, PHASE 1
2392  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  4, PHASE 2
2393  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  4, PHASE 3
2394  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  5, PHASE 1
2395  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  5, PHASE 2
2396  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  5, PHASE 3
2397  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  6, PHASE 1
2398  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  6, PHASE 2
2399  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  6, PHASE 3
2400  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  7, PHASE 1
2401  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  7, PHASE 2
2402  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  7, PHASE 3
2403  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  8, PHASE 1
2404  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  8, PHASE 2
2405  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  8, PHASE 3
2406  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  9, PHASE 1
2407  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  9, PHASE 2
2408  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE  9, PHASE 3
2409  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 10, PHASE 1
2410  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 10, PHASE 2
2411  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 10, PHASE 3
2412  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 11, PHASE 1
2413  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 11, PHASE 2
2414  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 11, PHASE 3
2415  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 12, PHASE 1
2416  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 12, PHASE 2
2417  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 12, PHASE 3
2418  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 13, PHASE 1
2419  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 13, PHASE 2
2420  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 13, PHASE 3
2421  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 14, PHASE 1
2422  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 14, PHASE 2
2423  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 14, PHASE 3
2424  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 15, PHASE 1
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2425  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 15, PHASE 2
2426  CONTRACT MAINTENANCE COST/FLYING HOUR - BASE 15, PHASE 3
2427
2517  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE  1                    A191
2518  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE  2
2519  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE  3
2520  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE  4
2521  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE  5
2522  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE  6
2523  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE  7
2524  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE  8
2525  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE  9
2526  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 10
2527  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 11
2528  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 12
2529  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 13
2530  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 14
2531  SUPPLIES AND SERV. COST PER MILITARY MAN - BASE 15
2428  CONTRACT TRAINING COST/FLYING HOUR - BASE  1, PHASE 1                A192
2429  CONTRACT TRAINING COST/FLYING HOUR - BASE  1, PHASE 2
2430  CONTRACT TRAINING COST/FLYING HOUR - BASE  1, PHASE 3
2431  CONTRACT TRAINING COST/FLYING HOUR - BASE  2, PHASE 1
2432  CONTRACT TRAINING COST/FLYING HOUR - BASE  2, PHASE 2
2433  CONTRACT TRAINING COST/FLYING HOUR - BASE  2, PHASE 3
2434  CONTRACT TRAINING COST/FLYING HOUR - BASE  3, PHASE 1
2435  CONTRACT TRAINING COST/FLYING HOUR - BASE  3, PHASE 2
2436  CONTRACT TRAINING COST/FLYING HOUR - BASE  3, PHASE 3
2437  CONTRACT TRAINING COST/FLYING HOUR - BASE  4, PHASE 1
2438  CONTRACT TRAINING COST/FLYING HOUR - BASE  4, PHASE 2
2439  CONTRACT TRAINING COST/FLYING HOUR - BASE  4, PHASE 3
2440  CONTRACT TRAINING COST/FLYING HOUR - BASE  5, PHASE 1
2441  CONTRACT TRAINING COST/FLYING HOUR - BASE  5, PHASE 2
2442  CONTRACT TRAINING COST/FLYING HOUR - BASE  5, PHASE 3
2443  CONTRACT TRAINING COST/FLYING HOUR - BASE  6, PHASE 1
2444  CONTRACT TRAINING COST/FLYING HOUR - BASE  6, PHASE 2
2445  CONTRACT TRAINING COST/FLYING HOUR - BASE  6, PHASE 3
2446  CONTRACT TRAINING COST/FLYING HOUR - BASE  7, PHASE 1
2447  CONTRACT TRAINING COST/FLYING HOUR - BASE  7, PHASE 2
2448  CONTRACT TRAINING COST/FLYING HOUR - BASE  7, PHASE 3
2449  CONTRACT TRAINING COST/FLYING HOUR - BASE  8, PHASE 1
2450  CONTRACT TRAINING COST/FLYING HOUR - BASE  8, PHASE 2
2451  CONTRACT TRAINING COST/FLYING HOUR - BASE  8, PHASE 3
2452  CONTRACT TRAINING COST/FLYING HOUR - BASE  9, PHASE 1
2453  CONTRACT TRAINING COST/FLYING HOUR - BASE  9, PHASE 2
2454  CONTRACT TRAINING COST/FLYING HOUR - BASE  9, PHASE 3
2455  CONTRACT TRAINING COST/FLYING HOUR - BASE 10, PHASE 1
2456  CONTRACT TRAINING COST/FLYING HOUR - BASE 10, PHASE 2
2457  CONTRACT TRAINING COST/FLYING HOUR - BASE 10, PHASE 3
2458  CONTRACT TRAINING COST/FLYING HOUR - BASE 11, PHASE 1
2459  CONTRACT TRAINING COST/FLYING HOUR - BASE 11, PHASE 2
2460  CONTRACT TRAINING COST/FLYING HOUR - BASE 11, PHASE 3
2461  CONTRACT TRAINING COST/FLYING HOUR - BASE 12, PHASE 1
2462  CONTRACT TRAINING COST/FLYING HOUR - BASE 12, PHASE 2
2463  CONTRACT TRAINING COST/FLYING HOUR - BASE 12, PHASE 3
2464  CONTRACT TRAINING COST/FLYING HOUR - BASE 13, PHASE 1
2465  CONTRACT TRAINING COST/FLYING HOUR - BASE 13, PHASE 2
2466  CONTRACT TRAINING COST/FLYING HOUR - BASE 13, PHASE 3
2467  CONTRACT TRAINING COST/FLYING HOUR - BASE 14, PHASE 1
2468  CONTRACT TRAINING COST/FLYING HOUR - BASE 14, PHASE 2
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2469	CONTRACT TRAINING COST/FLYING HOUR - BASE 14, PHASE 3	
2470	CONTRACT TRAINING COST/FLYING HOUR - BASE 15, PHASE 1	
2471	CONTRACT TRAINING COST/FLYING HOUR - BASE 15, PHASE 2	
2472	CONTRACT TRAINING COST/FLYING HOUR - BASE 15, PHASE 3	
2473	DEPOT MAINT. COST/FLYING HOUR - PHASE 1	A193
2474	DEPOT MAINT. COST/FLYING HOUR - PHASE 2	
2475	DEPOT MAINT. COST/FLYING HOUR - PHASE 3	
2476	BASE MATERIAL COST/FLYING HOUR - PHASE 1	A194
2477	BASE MATERIAL COST/FLYING HOUR - PHASE 2	
2478	BASE MATERIAL COST/FLYING HOUR - PHASE 3	
2479	POL COST/FLYING HOUR - PHASE 1	A195
2480	POL COST/FLYING HOUR - PHASE 2	
2481	POL COST/FLYING HOUR - PHASE 3	
2482	SIMULATOR O AND M COST/SIMULATOR - PHASE 1	A196
2483	SIMULATOR O AND M COST/SIMULATOR - PHASE 2	
2484	SIMULATOR O AND M COST/SIMULATOR - PHASE 3	
2485	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 1	A197
2486	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 2	
2487	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 3	
2488	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 4	
2489	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 5	
2490	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 6	
2491	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 7	
2492	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 8	
2493	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 9	
2494	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 10	
2495	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 11	
2496	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 12	
2497	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 13	
2498	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 14	
2499	FLYING HOUR/YEAR/SUPPORT AIRCRAFT - BASE 15	
2500	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 1	A226
2501	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 2	
2502	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 3	
2503	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 4	
2504	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 5	
2505	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 6	
2506	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 7	
2507	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 8	
2508	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 9	
2509	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 10	
2510	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 11	
2511	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 12	
2512	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 13	
2513	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 14	
2514	FLYING HOUR/YEAR/RESCUE AND RECOVERY AIRCRAFT - BASE 15	
2515	O AND M COST/FLYING HOUR - SUPPORT AIRCRAFT	A227
2516	O AND M COST/FLYING HOUR - RESCUE AND RECOVERY AIRCRAFT	A228

Appendix B

SYMBOLIC LISTING OF FORTRAN IV COMPUTER PROGRAM

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      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)

      COMMON/ONEA/A9(20,3)
      COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
      COMMON/THREE/A17(15,3),A18(20,15,3),NA15(20,3)
      COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
      COMMON/FIVEA/NA250(20,3), NA251(20,3)
      COMMON/SIX/A119(2,15),A120(2,15),A124(2,15),A125(2,15)
      COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
C
C   VARIABLES USED IN SUBROUTINES CUMCL,ATTRL,OTS,AVATTR,EVTGRD,
C      STLOAD,CAP
C
      DIMENSION NYEAR(20),P1(20,3),P2(20),P4(20,3),P5(20),P7(22),
     1          P10(20),P12(20,3),P13(2),P14(2),P15(20,3),P16(20,3),
     2           P17(22,3),P18(20,3),P18A(20,15,3),P19(20,15,3),
     3           P20(20,15,3),P24(20,15,3),P25(22),P27(20,15,3),
     4           P28(20,15),P29(20),P31(20,15,3),P33(20,15,3),
     5           NP30(20),P36(20,15,3),NPP35(20,15),P103(20,15),
     6           P193(20,3),P205(20,3),P208(20),P209(20,3),P235(20),
     7           P236(20),P237(20),P238(20),P239(20)
      EQUIVALENCE (P7(1),P25(1))
C
C   VARIABLES USED IN SUBROUTINES OPMANP,MAMANP,FSMANP,VSMANP,ACCUM
C
      DIMENSION P39(3),P38(3),P46(3),P61(3),P50(20,15,3),P51(20,15,3),
     1          P52(20,15,3),P53(20,15),P54(20,15),P55(20,15),
     2          P60(20,15,3),P90(20,3),P176(3),P210(20,15),P211(20,15),
     3          P212(20,15),P213(20,15),P214(20,15),P215(20,15),
     4          P216(20,15),P217(20,15),P218(20,15),P219(20,15),
     5          P220(20,15),P221(20,15),P223(20,15),P224(20,15),
     6          P225(20,15),P226(20,15),P227(20,15,3),P228(20,15),
     7          P229(20,15), P65(3), P69(3)
      EQUIVALENCE (P209(1,1),P90(1,1),P285(1,1)),(P18A(1,1,1),P50(1,1,1)
     1          ),(P19(1,1,1),P51(1,1,1)),(P20(1,1,1),P52(1,1,1)),
     2            (P24(1,1,1),P227(1,1,1),P231(1,1,1),P257(1,1,1)),
     3            (P27(1,1,1),P60(1,1,1)),(P28(1,1),P53(1,1)),
     4                          (P205(1),P39(1))
C
C   VARIABLES USED IN SUBROUTINE EQUIP
C
      DIMENSION P91(20,3),P92(20,3),P94(20,15,3),P95(20,15,3),P230(20,3)
      DIMENSION P96(20,3), P93(20,15,3)
      DIMENSION P231(20,15,3),       P234(20,15),P300(20,3),P167(20,15)
      EQUIVALENCE (P15(1,1),P91(1,1),P278(1,1)),(P18(1,1),P92(1,1)),
     1                          (P31(1,1,1),P94(1,1,1)),(A18(1,1,1),
     2            P95(1,1,1)),(P12(1,1),P230(1,1),P287(1,1)),
     3            (P210(1,1),P234(1,1),P265(1,1)),(P4(1,1),
     4            P300(1,1),P286(1,1)),(P211(1,1),P167(1,1))
C
C   VARIABLES USED IN SUBROUTINE FACIL
C
      DIMENSION P99(20,15),P102(20,15),P98(20,15),P101(20,15),
     1          P104(20,15),P105(20,15),P106(20,15),P107(20,15),
     2          P232(20,15),P233(20,15)
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      EQUIVALENCE (P212(1,1),P99(1,1),P244(1,1)),(P213(1,1),
     1              P102(1,1),P245(1,1)),(P214(1,1),P98(1,1),
     2              P243(1,1)),(P215(1,1),P101(1,1),P252(1,1)),
     3              (P216(1,1),P104(1,1),P246(1,1)),(P217(1,1),
     4              P105(1,1),P247(1,1)),(P218(1,1),P106(1,1),P248(1,1)),
     5              (P219(1,1),P107(1,1),P249(1,1)),(P220(1,1),
     6              P232(1,1),P250(1,1)),(P221(1,1),P233(1,1),
     7              P251(1,1))
C
C  VARIABLES USED IN SUBROUTINE INVCE
C
      DIMENSION P108(20,3),P109(20,3),P110(20,3),P115(20),P116(20),
     1          P340(20,3),PP236(20,15),PP237(20,15),P257(20,15,3),
     2          P279(20,3),P280(20,3),P168(20,3)
      EQUIVALENCE (T(1),P108(1)),(T(61),P109(1)),(T(121),P110(1)),
     1             (T(181),P340(1)),(T(241),P115(1)),(T(261),P116(1)),
     2             (P223(1,1),PP236(1,1)),(P224(1,1),PP237(1,1)),
     3             (A1(1,1),P279(1,1)),(A13(1,1),P280(1,1))
C
C  VARIABLES USED IN SUBROUTINE INVCM.
C
      DIMENSION PP238(20,15),PP239(20,15),P241(20,15),P242(20,15),
     1          P243(20,15),P259(20,15),P281(20,3),P282(20,3),
     2          P284(20,3),P285(20,3),P286(20,3),PP300(20),P307(20),
     3          P308(20),P309(20),P344(15,3),P345(15,3),P346(15)
      EQUIVALENCE (P225(1,1),PP238(1,1)),(P226(1,1),PP239(1,1)),
     1             (P229(1,1),P241(1,1)),
     2             (A147(1,1),P259(1,1)),(P16(1,1),P281(1,1)),
     3             (A2(1,1),P282(1,1)),(A44(1,1),P284(1,1)),
     4             (A224(1),PP300(1))
C
C  VARIABLES USED IN SUBROUTINE INVCF.
C
      DIMENSION P135(20,15),P136(20,15),P137(20,15),P240(20,15),
     1          P283(20,3),P301(20),P302(20),P303(20)
      EQUIVALENCE (T(281),P135(1)),(T(581),P136(1)),(T(881),P137(1)),
     1             (P228(1,1),P240(1,1)),(A43(1,1),P283(1,1)),
     2             (A10(1),P301(1)),(P2(1),P302(1))
C
C  VARIABLES USED IN SUBROUTINE ORERC
C
      DIMENSION P260(20,15),P261(20,15),P244(20,15),P245(20,15),
     1          P246(20,15),P247(20,15),P248(20,15),P249(20,15),
     2          P250(20,15),P251(20,15),P252(20,15),P253(20,15),
     3          P254(20,15),P255(20,15),P256(20,15),P287(20,3),
     4          P288(20,3),P289(20,3),P290(20,3),P291(20,3),P292(20,3),
     5          P293(20,3),P294(20,3),P295(20,3),P296(20,3),P297(20,3),
     6          P298(20,3),P299(20,3),P304(20),P305(20),P306(20),
     7          P310(20),P311(20),P312(20),P313(20),P314(20),P315(20),
     8          P316(20),P317(20),P318(20)
      EQUIVALENCE (T(1181),P260(1)),(T(1481),P261(1)),(A146(1,1),
     1              P253(1,1)),(P36(1),P254(1)),(A116(1),P255(1)),
     2              (A12(1),P256(1)),(A113(1,1),P288(1,1)),
     3              (P1(1,1),P289(1,1)),(T(1781),P290(1)),
     4              (T(1841),P291(1))
C
C
C  VARIABLES USED IN SUBROUTINE COSTB
C
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```
      DIMENSION P258(20,15),P263(20,15),P264(20,15),P265(20,15),
     1          P266(20),P267(20),P268(20),P269(20),P270(20,3),
     2          P271(20),P272(20),P273(20),P274(20),P341(20)
      EQUIVALENCE (P55(1,1),P258(1,1)),
     1            (P208(1),P266(1)), (P5(1),P267(1)),(P235(1),P268(1)),
     2            (P236(1),P269(1)),
     3            (P238(1),P271(1)),(P237(1),P272(1)),(P239(1),P273(1)),
     4            (P10(1),P274(1)),(P29(1),P341(1))
C
C  VARIABLES USED IN SUBROUTINE COSTP
C
      DIMENSION P276(20,3),P277(20,3),P278(20,3),P319(20),P320(20),
     1          P321(20),P332(20),P333(20),P334(20),P335(20)
      EQUIVALENCE (P193(1,1),P277(1,1))
C
C
C
C
C  READ DESCRIPTIVE TEXT THAT WILL BE PRINTED AT BEGINNING OF RUN
C
      CALL RTEXT
C
C  INITIALIZE INPUT ARRAY
C
    7 DO 1 I = 1,2625
    1 T(I) = 0.
C
C  READ CONTROL CARD
C
      READ(5,2) NYRS,NBYR,BASES,INDC,INDCC
    2 FORMAT(2(I2,3X),F2.0,2X,I1,2X,I1)
C
C  SET UP NYEAR ARRAY TO BE USED IN OUTPUT SUBROUTINES
C
      N = 1900 + NBYR - 1
      DO 9 I = 1,NYRS
    9 NYEAR(I) = N + I
C
C  COMPUTE CUMULATIVE COURSE LENGTH P18 FOR EACH YEAR
C
      CALL CUMCL(NYRS,P1,P2,P4,P5,P16,P18,P236,P237,P238,P239,INDC)
C
C
C  COMPUTE ATTRITIONLESS ENTRIES P7 INTO UPT FOR ALL YEARS
C
      CALL ATTRLS(NYRS,P7,P18,INDC)
C
C  COMPUTE ENTRIES P10 INTO UPT FROM OTS FOR ALL YEARS
C
      CALL OTS(NYRS,P7,P10,P235,INDC)
C
C  COMPUTE AVERAGE ATTRITION P12 FOR ALL SOURCES FOR EACH YEAR AND PHASE
C
      CALL AVATTR(NYRS,P10,P12,P193,INDC)
C
C  COMPUTE ENTRY-GRADUATE AVERAGE P15 BY YEAR OF UPT GRADUATION FOR EACH
C     YEAR AND PHASE
      CALL ENTGRD(NYRS,P12,P13,P14,P15,P18,INDC)
C
```

```
C   COMPUTE STUDENT LOAD P25 PER YEAR
C
      CALL STLOAD(NYRS,P15,P16,P17,P18,P25,P208,P209,INDC)
C
C   COMPUTE CAPABILITY AND BASE LOADING
C
      CALL CAP(NYRS,BASES,P1,P17,P25,P18A,P19,P20,P24,P27,P28,P29,
     1         NP30,P31,P36,P103,P33,P208,P209,NPP35,P205,INDC)
C
      CALL PRINT1(NYRS,NYEAR,P29,P25,      P208)
C
      CALL PRINT2(NYRS,NYEAR,NP30(NYRS),P18A,P20,P19,P31,P24,P27,P28,
     1              P103)
C
      CALL PRINT3(NYRS,NYEAR,P4,P5,P235,P236,P237,P238,P239,P17,P25)
C
C
C   SET TO ZERO THE ACCUMULATING VARIABLES USED IN OPMANP,MAMANP,
C      FSMANP,VSMANP,ACCUM,AND PRINT4.
C
      CALL ZERO(P50,P51,P52,P53,P54,P55,P210,P211,P212,P213,P214,P215,
     1           P216,P217,P218,P219,P220,P221,P223,P224,P225,P226,
     2          P227,P228,P229,P60,P90)
C
      NY = 1
C
C   READ T(500) - T(1460) FOR YEAR NY.
C
   10 CALL INPUT(NY,4)
C
      NB = 1
C
C   COMPUTE OPERATIONS MANPOWER FOR YEAR NY, BASE NB.
C
   15 CALL OPMANP(NY,NB,P2,P16,P33,P39,P38,P46,     P50,P51,P52,P53,
     1              P54,P55,    P210,P211,P212,     P1,INDC)
C
C   COMPUTE MAINTENANCE AND ADMINISTRATIVE MANPOWER FOR YEAR NY, BASE NB
C
      CALL MAMANP(NY,NB,P1,P2,P33,P39,P16,P38,P46,P50,P51,P52,P53,P54,
     1              P55,P73,P60,P90,P176,P213,P214,P215,P61,P65,P69,
     2 P177,INDC)
C
C   COMPUTE FIXED SUPPORT MANPOWER FOR YEAR NY, BASE NB.
C
      CALL FSMANP(NY,NB,P216,P217,P218,P219,P53,P54,P55,INDC)
C
C   COMPUTE VARIABLE SUPPORT MANPOWER FOR YEAR NY, BASE NB.
C
      CALL VSMANP(NY,NB,P33,P50,P51,P52,P53,P54,P55,P176,P177,P220,P221,
     1              P16,P38,P46,P73,P61,P65,P69,INDC)
C
C   ACCUMULATE MANPOWER PERSONNEL FOR YEAR NY, BASE NB.
C
      CALL ACCUM(NY,NB,P50,P51,P52,P53,P54,P55,P103,P223,P224,P225,P226,
     1              P227,P228,P229,INDC)
C
      IF(NB.GE.NP30(NY)) GO TO 20
      NB = NB + 1
      GO TO 15
C
   20 IF(NY.GE.NYRS) GO TO 25
      NY = NY + 1
      GO TO 10
C
   25 CALL PRINT4(NYRS,NYEAR,NP30(NYRS),P103,P210,P211,P212,P213,
     1             P214,P215,P216,P217,P218,P219,P220,P221,P223,P224,
     2             P225,P226,P227,P228,P229)
C
C
C  COMPUTE EQUIPMENT FOR EACH YEAR, BASE, AND PHASE
C
      CALL EQUIP(NYRS,P1,P33,P90,P91,P92,P94,P95,P230,P231,P234,P300,
     1           P167,NP30,NPP35,P96,P93,INDC)
C
C
      CALL PRINT5(NYRS,NYEAR,P230,P92,P300,P96)
C
      CALL PRINT6(NYRS,NYEAR,P93,P231,P95,NP30(NYRS))
C
C  COMPUTE FACILITIES FOR EACH YEAR AND BASE
C
      CALL FACIL(NYRS,NP30,NPP35,P94,P95,P103,P99,P102,P98,P101,P104,
     1           P105,P106,P107,P232,P233,INDCC)
C
      NY = 1
C
C  READ T(1902) - T(2531) FOR YEAR NY
C
   30 CALL INPUT(NY,7)
C
C  COMPUTE INVESTMENT COST FOR EQUIPMENT FOR YEAR NY
C
      CALL INVCE(NY,P91,P92,P95,P108,P109,P110,P115,P116,P340,PP236,
     1           PP237,P257,P279,P280,P168,NP30,INDC)
C
C
C  COMPUTE INVESTMENT COST FOR MANPOWER FOR YEAR NY.
C
      CALL INVCM(NY,NP30,NPP35,P33,P50,P51,P53,P54,PP238,PP239,P241,
     1     P242,P243,P257,P259,P281,P282,P284,P285,P286,PP300,P307,
     2             P308,P309,P344,P345,P346,INDC)
C
C  COMPUTE INVESTMENT COST FOR FACILITIES FOR YEAR NY.
C
      CALL INVCF(NY,NP30,NPP35,P36,P99,P102,P135,P136,P137,P240,P257,
     1             P259,P283,P301,P302,P303,INDC)
C
C  SET TO ZERO THE ACCUMULATING VARIABLES USED IN SUBROUTIN OPERC.
C
      CALL ZERO1(NY,P244,P245,P246,P247,P248,P249,P250,P251,P252,
     1             P253,P254,P255,P256,P287,P288,P289,P290,P291,P292,
     2             P293,P294,P295,P296,P297,P298,P299,P304,P305,P306,
     4             P310,P311,P312,P313,P314,P315,P316,P317,P318)
C
C  COMPUTE OPERATING COST FOR YEAR NY.
C
      CALL OPERC(NY,NP30,P10,P33,P50,P51,P52,P53,P54,P55,P60,P94,P95,
     1           P193,P167,P234,P260,P261,P244,P245,P246,P247,P248,P249,
     2           P250,P251,P252,P253,P254,P255,P256,P257,P259,P287,P288,
     3           P289,P290,P291,P292,P293,P294,P295,P296,P297,P298,P299,
     4           P304,P305,P306,P310,P311,P312,P313,P314,P315,P316,P317,
     5           P318,P103,P25,INDC)
C
C  ACCUMULATE COSTS BY BASE
C
      CALL COSTB(NY,NP30,P108,P109,P110,P115,P116,P340,P135,P136,P137,
     1       PP236,PP237,PP238,PP239,P240,P241,P242,P243,P244,P245,P246,
     2           P247,P248,P249,P250,P251,P252,P253,P254,P255,P256,P260,
     3           P261,P259,P258,P263,P264,P265,P266,P267,P268,P269,P270,
     4           P271,P272,P273,P274,P341,P257,INDC)
C
C  ACCUMULATE COSTS BY PHASE
C
      CALL COSTP(NY,     P108,P109,P110,P115,P116,P279,P280,P281,P282,
     1           P283,P284,P285,P286,P287,P288,P289,P290,P291,P292,P293,
     2           P294,P295,P296,P297,P298,P299,PP300,P301,P302,P303,
     3           P304,P305,P306,P307,P308,P309,P310,P311,P312,P313,
     4           P314,P315,P316,P317,P318,P340, P276,P277,P278,P332,
     5           P333,P334,P335,P319,P320,P321,INDC)
C
C
C
C
C
      IF(NY.GE.NYRS) GO TO 50
      NY = NY + 1
      GO TO 30
C
   50 CALL PRINT7(NYRS,NYEAR,P135,P136,P137,PP236,PP237,PP238,PP239,
     1            P240,P241,P242,P243,P244,P245,P246,P247,P248,P249,
     2            P250,P251,P252,P253,P254,P255,P256,P257,P258,P259,
     3            P260,P261,P263,P264,P265,NP30(NYRS))
C
      CALL PRINT8(NYRS,NYEAR,P115,P116,P266,P267,P268,P269,P270,P271,
     1            P273,P274,P341)
C
      CALL PRINT9(NYRS,NYEAR,P108,P109,P110,P276,P277,P278,P279,P280,
     1            P281,P282,P283,P284,P285,P286,P287,P288,P289,P290,
     2            P291,P292,P293,P294,P295,P296,P297,P298,P299,P340)
C
      CALL PRNT10(NYRS,NYEAR,P115,P116,PP300,P301,P302,P303,P304,P305,
     1            P306,P307,P308,P309,P310,P311,P312,P313,P314,P315,
     2            P316,P317,P318,P319,P320,P321)
C
      CALL PRNT11(NYRS,NYEAR,P258,P273,P278,P321,P332,P333,P334,P335,
     1            NP30(NYRS))
C
C
C
      RETURN
      END
      SUBROUTINE RTEXT
      DIMENSION TEXT(18)
C
C  READ AND PRINT THE DESCRIPTIVE TEXT AT THE BEGINNING OF THE RUN
C
    6 WRITE(6,1)
    1 FORMAT(1H1,//)
      LINES = 3
    2 READ(5,3) (TEXT(I), I = 1,18), IC
    3 FORMAT(18A4,7X,I1)
      WRITE(6,4) (TEXT(I), I = 1,18)
    4 FORMAT(1H ,25X,18A4)
      IF(IC.NE.9) GO TO 5
      WRITE(6,1)
      RETURN
C
    5 LINES = LINES + 1
      IF(LINES.GE.55) GO TO 6
      GO TO 2
C
      END




      SUBROUTINE INPUT(NY,NT)
C
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      COMMON/ONEA/A9(20,3)
      COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
      COMMON/THREE/A17(15,3),A18(20,15,3),NA15(20,3)
      COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
      COMMON/FIVEA/NA250(20,3), NA251(20,3)
      COMMON/SIX/A119(2,15),A120(2,15),A124(2,15),A125(2,15)
      COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
      DIMENSION INDEX(7), VALUE(7)
C
C  READ AN INPUT CARD, CHECK ITS TYPE AND YEAR
C
    5 READ(5,10) NTYPE,NYR,(INDEX(I),VALUE(I),I=1,7)
   10 FORMAT(2(I2,2X),7(I4,F6.3))
      IF(NTYPE.NE.NT) GO TO 100
      IF(NYR.NE.NY) GO TO 102
      DO 20 I = 1,7
      IF(INDEX(I).EQ.9999) GO TO 30
      T(INDEX(I)) = VALUE(I)
   20 CONTINUE
      GO TO 5
C
   30 GO TO (50,60,70,80,90,200,300), NT
C
C  SET TYPE 1 INPUTS
C
   50 NA7(NY) = T(13)
      A10(NY) = T(30)
      DO 55 I = 1,3
      A1(NY,I) = T(I)
      A2(NY,I) = T(I+3)
      A9(NY,I) = T(I+13)
      A43(NY,I) = T(I+16)
      A44(NY,I) = T(I+19)
   55 A113(NY,I) = T(I+22)
      RETURN
C
C
C  SET TYPE 2 INPUTS
C
   60 NA14(NY) = T(54)
      A224(NY) = T(55)
      DO 62 I = 1,5
      DO 61 J = 1,3
      IJ = 3*(I-1) + J
   61 A12(NY,I,J) = T(IJ+35)
   62 A11(NY,I) = T(I+30)
      DO 65 J = 1,3
   65 A13(NY,J) = T(J + 50)
      RETURN
C
C
C  SET TYPE 3 INPUTS
C
   70 DO 75 I = 1,15
      DO 75 J = 1,3
      IJ = 3*(I-1) + J
      A18(NY,I,J) = T(IJ+103)
   75 A17(I,J) = T(IJ+58)
      DO 76 I = 1,3
   76 NA15(NY,I) = T(I + 55)
      RETURN
C
C  SET TYPE 4 INPUTS
C
   80 RETURN
C
C  SET TYPE 5 INPUTS
C
   90 DO 95 I = 1,15
      DO 94 J = 1,3
      IJ = 3*(I-1) + J
   94 A116(NY,I,J)  = T(IJ + 1520)
      A146(NY,I) = T(I + 1595)
   95 A147(NY,I) = T(I + 1610)
      DO 96 I = 1,3
      NA250(NY,I) = T(I+1930)
      NA251(NY,I) = T(I+1933)
   96 A111(NY,I) = T(I + 1466)
      RETURN
C
C  SET TYPE 6 INPUTS
C
  200 DO 210 I = 1,15
      A119(2,I) = T(I+1643)
      A120(2,I) = T(I+1658)
      A124(2,I) = T(I+1690)
  210 A125(2,I) = T(I+1705)
```

```
      RETURN
C
C  SET TYPE 7 INPUTS
C
  300 DO 325 I = 1,3
      A139(NY,I) = T(I + 1901)*1000000.
  325 CONTINUE
      DO 350 I = 1,15
      A178(NY,I) = T(I + 2285)*1000.
      A179(NY,I) = T(I + 2300)*1000.
  350 CONTINUE
      RETURN
C
C
  100 WRITE(6,101) NT
  101 FORMAT(28H1CARD READ SHOULD BE A TYPE ,I1,
     1 21H CARD, BUT IT IS NOT.)
      CALL EXIT
C
  102 WRITE(6,103) NT
  103 FORMAT(8H1A TYPE ,I1,52H CARD DOES NOT CONTAIN THE CORRECT CONSECU
     1TIVE YEAR.)
      CALL EXIT
C
      END
```

```
      SUBROUTINE CUMCL(NYRS,P1,P2,P4,P5,P16,P18,P236,P237,P238,P239,IC)
C
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      COMMON/ONEA/A9(20,3)
      DIMENSION P1(20,3),P2(20),P4(20,3),P5(20),P16(20,3),P18(20,3),
     1              P236(20),P237(20),P238(20),P239(20)
C
C  COMPUTE CUMULATIVE COURSE LENGTH P18 FOR EACH YEAR
C
C  READ T(1) - T(30) FOR YEAR NY
C
      NY = 1
    3 CALL INPUT(NY,1)
C
      DO 4 J = 1,3
      P1(NY,J) = 0.
      P4(NY,J) = 0.
      P16(NY,J) = 0.
    4 P18(NY,J) = 0.
C
    5 NP = NA7(NY)
      P236(NY) = 0.
      P237(NY) = 0.
      P238(NY) = 0.
      P239(NY) = 0.
C
C  WORKING DAYS/YEAR NY
```

```
C
      P2(NY) = 365. - T(8) - (7. - T(7))*(365./7.)
      P5(NY) = 0.
      IF(IC.EQ.0) GO TO 10
      WRITE(6,1001) NY, P2(NY)
 1001 FORMAT(3H0NY,2X,I2/3H0P2,2X,F6.2)
C
C  CHECK PHASE LENGTH THRUPUT DESIGNATOR
C
   10 P206 = 0.
      P207 = 0.
      IF(T(9).NE.1.) GO TO 25
C
C  THRUPUT HAS BEEN DESIGNATED.
C  CALENDAR DAYS/PHASE NP FOR FLYING IN YEAR NY.
C
      P3 = T(NP + 9)
C
C  WORKING DAYS/PHASE NP IN YEAR NY
C
      P1(NY,NP) = P3/(365./P2(NY))
C
C  CALENDAR DAYS/PHASE NP IN YEAR NY
C
   15 P4(NY,NP) = P3 + A9(NY,NP)  * 7./T(7)
C
C  PHASE NP LENGTH IN YEARS
C
      P16(NY,NP) = P4(NY,NP)/365.
C
C  CALENDAR DAYS/COURSE IN YEAR NY
C
      P5(NY) = P5(NY) + P4(NY,NP)
C
C  CUMULATIVE COURSE LENGTH IN YEARS FOR YEAR NY STARTING
C     WITH LAST PHASE IN YEAR NY.
C
      P18(NY,NP) = P5(NY)/365.
C
C  ACCUMULATE TOTAL FLYING HOURS FOR YEAR NY.
C
      P236(NY) = P236(NY) + A1(NY,NP)
      P237(NY) = P237(NY) + A113(NY,NP)
      P238(NY) = P238(NY) + A43(NY,NP)
      P239(NY) = P239(NY) + A44(NY,NP)
C
      IF(IC.EQ.0) GO TO 99
      WRITE(6,1002) NP,P1(NY,NP),P3,P4(NY,NP),P5(NY),P16(NY,NP),
     1 P18(NY,NP),P236(NY),P206,P207
 1002 FORMAT(3H0NP,2X,I1,2X,2HP1,2X,F6.2,2X,2HP3,2X,F6.2,2X,2HP4,2X,
     1 F6.2,2X,2HP5,2X,F6.2,2X,3HP16,2X,F4.2,2X,3HP18,2X,F5.2,2X,
     2 4HP236,2X,F7.2,2X,4HP206,2X,F7.2,2X,4HP207,2X,F7.2)
   99 IF(NP.LE.1) GO TO 20
      NP = NP - 1
      GO TO 10
   20 IF(NY.GE.NYRS) RETURN
      NY = NY + 1
      GO TO 3
C
```

```
C  THRUPUT HAS NOT BEEN DESIGNATED.
C  WORKING DAYS/PHASE NP CONSTRAINED BY FLYING IN YEAR NY.
C
   25 P206 = A1(NY,NP)/A2(NY,NP)
C
C  WORKING DAYS/PHASE NP CONSTRAINED BY ALL TRAINING IN YEAR NY.
C
      P207 = A1(NY,NP)*(1. + T(26)) + A113(NY,NP)*(1. + T(27))
      P207 = (P207 + (A43(NY,NP) + A44(NY,NP))*(1.+T(28)))/T(29)
      IF(P206.GE.P207) GO TO 26
C
C  WORKING DAYS/PHASE NP IN YEAR NY
C
      P1(NY,NP) = P207
      GO TO 27
   26 P1(NY,NP) = P206
C
C  CALENDAR DAYS/PHASE NP FOR FLYING IN YEAR NY
C
   27 P3 = (365./P2(NY))*P1(NY,NP)
      GO TO 15
C
      END




      SUBROUTINE OTS(NYRS,P7,P10,P235,IC)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
      DIMENSION P7(22),P10(20),P235(20)
C
C  COMPUTE ENTRIES P10 INTO UPT FROM OTS FOR ALL YEARS
C
      NY = 1
C
C  READ T(31) - T(55) FOR YEAR NY
C
   71 CALL INPUT(NY,2)
      IF(IC.EQ.0) GO TO 10
      WRITE(6,1004) NY
 1004 FORMAT(3HONY,2X,I2)
   10 P190 = 0.
      P235(NY) = 0.
      NS = 1
C
   72 P189 = 1.
      NP = 1
C
C  PERCENTAGE OF STUDENTS FROM SOURCE NS NOT ATTRITTED IN YEAR NY.
C
   73 P189 = P189*(1. - A12(NY,NS,NP))
      IF(NP.GE.NA7(NY)) GO TO 75
      NP = NP + 1
      GO TO 73
C
```

```
C   STUDENT COURSE ATTRITION RATE IN YEAR NY FOR ENTRIES
C       FROM SOURCE NS.
C
   75 P9 = 1. - P189
      IF(NS.EQ.2) P189A = P189
C
C   FIXED ATTRITIONLESS ENTRIES IN YEAR NY.
C
      P190 = P190 + A11(NY,NS)*(1. - P9)
      IF(IC.EQ.0) GO TO 11
      WRITE(6,1005) NS, P189, P9
 1005 FORMAT(3HONS,2X,I1,2X,4HP189,2X,F4.3,2X,2HP9,2X,F4.3)
   11 IF(NS.GE.NA14(NY)) GO TO 80
      NS = NS + 1
      GO TO 72
C
C   OTS ATTRITIONLESS ENTRIES IN YEAR NY
C
   80 P8 = P7(NY) - P190
      P191 = 1.
      NP = 1
C
C   ACCUMULATE ONE MINUS COURSE ATTRITION RATE FOR OTS IN YEAR NY
C
   81 P191 = P191*(1. - A13(NY,NP))
      IF(NP.GE.NA7(NY)) GO TO 85
      NP = NP + 1
      GO TO 81
C
C   OTS STUDENT COURSE ATTRITION RATE IN YEAR NY
C
   85 P11 = 1. - P191
C
C   OTS ENTRIES IN YEAR NY
C
      P10(NY) = P8/(1. - P11)
      IF(P10(NY).LT.0.) GO TO 90
   86 DO 87 I = 1,NS
   87 P235(NY) = P235(NY) + A11(NY,I)
      P235(NY) = P235(NY) + P10(NY)
      IF(IC.EQ.0) GO TO 12
      WRITE(6,1006) P190,P8,P191,P11,P10(NY),P235(NY),A11(NY,2)
 1006 FORMAT(5HOP190,2X,F8.2,2X,2HP8,2X,F8.2,2X,4HP191,2X,F5.3,2X,
     1 3HP11,2X,F4.3,2X,3HP10,2X,F8.2,2X,4HP235,2X,F8.2,2X,3HA11,2X,
     2 F8.2)
   12 IF(NY.GE.NYRS) RETURN
      NY = NY + 1
      GO TO 71
C
C   OTS ENTRIES NUMBER LESS THAN ZERO. REDUCE THE NUMBER OF ENTRIES
C        FROM ROTC.
C
   90 A11(NY,2) = A11(NY,2) + P10(NY)*(1. - P11)/P189A
      IF(A11(NY,2).GE.0.) GO TO 95
C
C   REDUCED ENTRIES FROM ROTC NUMBER LESS THAN ZERO.
C   EXECUTION WILL BE TERMINATED.
C
      WRITE(6,91) NY
   91 FORMAT(48H1ENTRIES FROM OTS NUMBER LESS THAN ZERO IN YEAR ,I2/
     1       54H0REDUCED ENTRIES FROM ROTC ALSO NUMBER LESS THAN ZERO./
     2       39H0PROGRAM EXECUTION HAS BEEN TERMINATED.)
      CALL EXIT
C
   95 P10(NY) = 0.
      GO TO 86
C
      END




      SUBROUTINE AVATTR(NYRS,P10,P12,P193,IC)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
      DIMENSION P10(20),P12(20,3),P193(20,3)
C
C  COMPUTE AVERAGE ATTRITION P12 FOR ALL SOURCES FOR EACH YEAR AND PHASE
C
      NY = 1
  101 DO 10 J = 1,3
      P12(NY,J) = 0.
   10 P193(NY,J) = 0.
C
      NP = 1
      P192 = 0.
      NS = 1
C
C  ATTRITTED STUDENTS FOR ALL FIXED SOURCES IN PHASE 1, YEAR NY.
C
  105 P192 = P192 + A12(NY,NS,NP)*A11(NY,NS)
C
C  ENTRIES FOR ALL FIXED SOURCES IN PHASE 1, YEAR NY.
C
      P193(NY,NP) = P193(NY,NP) + A11(NY,NS)
      IF(NS.GE.NA14(NY)) GO TO 110
      NS = NS + 1
      GO TO 105
C
C  AVERAGE ATTRITION FOR ALL SOURCES IN PHASE 1 BY YEAR OF ENTRY.
C
  110 P12(NY,NP) = (P192 + A13(NY,NP)*P10(NY))/(P193(NY,NP) + P10(NY))
      IF(IC.EQ.0) GO TO 115
      WRITE(6,1007) NP,P192,P193(NY,NP), P12(NY,NP)
 1007 FORMAT(3H0NP,2X,I1,2X,4HP192,2X,F7.2,2X,4HP193,2X,F7.2,2X,3HP12,
     1 2X,F4.3)
  115 IF(NP.LT.NA7(NY)) GO TO 120
      IF(NY.GE.NYRS) RETURN
      NY = NY + 1
      GO TO 101
  120 NP = NP + 1
      P192 = 0.
      NS = 1
  121 NQ = 1
      P194 = 1.
      P195 = 1.
```

```
C
C  PHASE NP ENTRIES PERCENT OF PHASE 1 ENTRIES - FIXED SOURCES
C
  125 P194 = P194*(1. - A12(NY,NS,NQ))
C
C  PHASE NP ENTRIES PERCENT OF PHASE 1 ENTRIES - OTS
C
      P195 = P195*(1. - A13(NY,NQ))
      IF(NQ.GE.(NP - 1)) GO TO 130
      NQ = NQ + 1
      GO TO 125
C
C  ATTRITTED STUDENTS FOR ALL FIXED SOURCES IN PHASE NP, YEAR NY.
C
  130 P192 = P192 + A12(NY,NS,NP)*A11(NY,NS)*P194
C
C  ENTRIES FOR ALL FIXED SOURCES IN PHASE NP, YEAR NY.
C
      P193(NY,NP) = P193(NY,NP) + A11(NY,NS)*P194
      IF(NS.GE.NA14(NY)) GO TO 140
      NS = NS + 1
      GO TO 121
C
C  AVERAGE ATTRITION FOR ALL SOURCES IN PHASE NP BY YEAR OF ENTRY NY
C
  140 P12(NY,NP) = (P192 + A13(NY,NP)*P10(NY)*P195)
      P12(NY,NP) = P12(NY,NP)/(P193(NY,NP) + P10(NY)*P195)
      IF(IC.EQ.0) GO TO 115
      WRITE(6,1008) NP,P194,P195,P192,P193(NY,NP),P12(NY,NP)
 1008 FORMAT(3HONP,2X,I1,2X,4HP194,2X,F5.3,2X,4HP195,2X,F5.3,2X,
     1 4HP192,2X,F7.2,2X,4HP193,2X,F7.2,2X,3HP12,2X,F4.3)
      GO TO 115
C
      END




      SUBROUTINE ENTGRD(NYRS,P12,P13,P14,P15,P18,IC)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      DIMENSION P13(2),P14(2),P15(20,3),P18(20,3),P12(20,3)
C
C  COMPUTE ENTRY-GRADUATE AVERAGE P15 BY YEAR OF UPT GRADUATION FOR EACH
C     YEAR AND PHASE
C
      NY = 1
  151 DO 12 J = 1,3
   12 P15(NY,J) = 0.
      NP = NA7(NY)
      P6 = P18(NY,1)
C
C  PHASE NP GRADUATES BY YEAR NY OF UPT GRADUATION
C
      P14(1) = A10(NY)
C
C  CHECK COURSE LENGTH P6 IN YEAR NY AGAINST YEAR NY
C
```

```
  152 IF(NY.GE.3) GO TO 160
      IF(NY.GE.2) GO TO 155
C
C  YEAR NY IS 1.
C  ATTRITION RATE AVERAGED OVER YEARS ENTERING FOR PHASE NP,
C     GRADUATING YEAR NY
C
      P13(1) = P12(NY,NP)
  158 IF(NP.GE.NA7(NY)) GO TO 153
C
C  PHASE GRADUATES BY YEAR OF UPT GRADUATION
C
      P14(1) = P14(2)/(1. - P13(2))
C
C  ENTRY-GRADUATE AVERAGE BY YEAR OF UPT GRADUATION
C
  153 P15(NY,NP) = (P14(1) + (P14(1)/(1. - P13(1))))/2.
      IF(IC.EQ.0) GO TO 10
      WRITE(6,1009) NY,NP,P14(1),P15(NY,NP)
 1009 FORMAT(3HONY,2X,I2,2X,2HNP,2X,I1,2X,3HP14,2X,F8.2,2X,3HP15,2X,
     1 F8.2)
   10 IF(NP.LE.1) GO TO 154
      NP = NP - 1
      P13(2) = P13(1)
      P14(2) = P14(1)
      GO TO 152
  154 IF(NY.GE.NYRS) RETURN
      NY = NY + 1
      GO TO 151
C
C  YEAR NY IS 2.
C
  155 IF(P6.GE.1.) GO TO 156
C
C  COURSE LENGTH IN YEAR 2 IS LESS THAN 1 YEAR
C  ATTRITION RATE AVERAGED OVER YEARS ENTERING FOR PHASE NP,
C     GRADUATING YEAR 2.
C
  157 P13(1) = P6*P12(NY - 1,NP) + (1. - P6)*P12(NY,NP)
      GO TO 158
C
C  COURSE LENGTH IN YEAR 2 IS GREATER THAN OR EQUAL TO ONE YEAR
C
  156 P13(1) = P12(NY - 1,NP)
      GO TO 158
C
C  YEAR NY IS GREATER THAN OR EQUAL TO 3
C
  160 IF(P6.LT.1.) GO TO 157
      P13(1) = (P6 - 1.)*P12(NY - 2,NP) + (2. - P6)*P12(NY - 1,NP)
      GO TO 158
C
      END
```

```
      SUBROUTINE STLOAD(NYRS,P15,P16,P17,P18,P25,P208,P209,IC)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
      DIMENSION P15(20,3),P16(20,3),P17(22,3),P18(20,3),P25(22),
     1          P208(20),P209(20,3)
C
C  COMPUTE STUDENT LOAD P25 PER YEAR
C
      NY = 1
      IND = 0
  176 NN = NY - IND
      NP = NA7(NN)
      DO 1000 I = 1,3
 1000 P17(NY,I) = 0.
      P25(NY) = 0.
      IF(P16(NN,NP).LT.1.) GO TO 200
C
C  LENGTH OF LAST PHASE IN YEAR NY IS GREATER THAN OR EQUAL TO 1 YEAR
C
      IF(NY.GE.2) GO TO 180
C
C  YEAR NY IS 1.  STUDENT LOAD IN LAST PHASE OF YEAR NY.
C
  177 P17(NY,NP) = P15(NN,NP)/2.
C
C  STUDENT LOAD ALL PHASES IN YEAR NY.
C
      P25(NY) = P25(NY) + P17(NY,NP)
  178 IF(NP.LE.1) GO TO 179
      NP = NP - 1
      GO TO 190
  179 IF(NY.GE.NYRS) GO TO 229
      NY = NY + 1
      GO TO 176
  180 IF(NY.LT.3) GO TO 181
C
C  YEAR NY IS GREATER THAN OR EQUAL TO 3.
C
      A =                             ((P16(NN,NP)-1.)**2)*P15(NN,NP)/2.
      P17(NY-2,NP) = P17(NY-2,NP) + A
      P25(NY-2) = P25(NY-2) + A
  181 A = (2.-P16(NN,NP))*P15(NN,NP)*P16(NN,NP)/2.
      A = A + P15(NN,NP)*(P16(NN,NP)-1.)
      P17(NY-1,NP) = P17(NY-1,NP) + A
      P25(NY-1) =  P25(NY-1) + A
      GO TO 177
  190 IF(NY.LT.2) GO TO 179
      IF(NY.LT.3) GO TO 195
      A = ((P18(NN,NP)-1.)**2 - (P18(NN,NP+1)-1.)**2)*P15(NN,NP)/2.
      P17(NY-2,NP) = P17(NY-2,NP) + A
      P25(NY-2) = P25(NY-2) + A
  195 A = (P15(NN,NP)/2.)*(4.*P18(NN,NP)-P18(NN,NP)**2)
      A = A + (P15(NN,NP)/2.)*(P18(NN,NP+1)**2 - 4.*P18(NN,NP+1))
      P17(NY-1,NP) = P17(NY-1,NP) + A
      P25(NY-1) = P25(NY-1) + A
      GO TO 178
C
C  LENGTH OF LAST PHASE IN YEAR NY IS LESS THAN 1 YEAR
C
```

```
  200 IF(NY.LT.2) GO TO 205
C
C  YEAR NY IS GREATER THAN OR EQUAL TO 2.
C
      A =                              (P15(NN,NP)/2.)*P18(NN,NP)**2
      P17(NY-1,NP) = P17(NY-1,NP) + A
      P25(NY-1) = P25(NY-1) + A
  205 A = P15(NN,NP)*(P18(NN,NP) - .5*P18(NN,NP)**2)
      P17(NY,NP) = P17(NY,NP) + A
      P25(NY) = P25(NY) + A
  206 IF(NP.LE.1) GO TO 179
      NP = NP - 1
      IF(P18(NN,NP).GE.1.) GO TO 215
      GO TO 220
C
C  LENGTH OF PHASE NP IN YEAR NY IS GREATER THAN OR EQUAL TO 1 YEAR
C
  215 IF(NY.LT.2) GO TO 217
      IF(NY.LT.3) GO TO 216
      A =                            ((P18(NN,NP)-1.)**2)*P15(NN,NP)/2.
      P17(NY-2,NP) = P17(NY-2,NP)+A
      P25(NY-2) = P25(NY-2) + A
  216 A =  4.*P18(NN,NP)-P18(NN,NP)**2-P18(NN,NP+1)**2-2.
      A =  A*P15(NN,NP)/2.
      P17(NY-1,NP) = P17(NY-1,NP) + A
      P25(NY-1) = P25(NY-1) + A
  217 A=P15(NN,NP)*(.5+.5*P18(NN,NP+1)**2-P18(NN,NP+1))
      P17(NY,NP) = P17(NY,NP) + A
      P25(NY) = P25(NY) + A
      IF(NP.LE.1) GO TO 179
      NP = NP - 1
      GO TO 190
C
C  LENGTH OF PHASE NP IN YEAR NY IS LESS THAN 1 YEAR.
C
  220 IF(NY.LT.2) GO TO 222
      A = P15(NN,NP)*(P18(NN,NP)**2-P18(NN,NP+1)**2)/2.
      P17(NY-1,NP) = P17(NY-1,NP) + A
      P25(NY-1) = P25(NY-1) + A
  222 A=.5*(P18(NN,NP+1)**2-P18(NN,NP)**2)+P18(NN,NP)-P18(NN,NP+1)
      P17(NY,NP) = P17(NY,NP) + P15(NN,NP)*A
      P25(NY) = P25(NY) + P15(NN,NP)*A
      GO TO 206
  229 IF(IND.EQ.2) GO TO 230
      IND = IND + 1
      NY = NY + 1
      GO TO 176
C
C  STUDENT LOAD FOR EACH YEAR HAS BEEN CALCULATED
C
  230 IF(IC.EQ.0) GO TO 10
      DO 225 I = 1,NYRS
  225 WRITE(6,1010) I,P25(I), (J,P17(I,J), J = 1,3)
 1010 FORMAT(3H0NY,2X,I2,2X,3HP25,2X,F7.2,2X,3(2HNP,2X,I1,2X,3HP17,
     1 F9.2))
   10 NY = 1
  231 DO 12 I = 1,3
   12 P209(NY,I) = 0.
C
```

```
C  STUDENT LOAD + SURGE BY YEAR
C
      P208(NY) = P25(NY) + A224(NY)
      NP = 1
C
C  STUDENT LOAD + SURGE BY YEAR AND PHASE
C
  232 P209(NY,NP) = P208(NY)*P17(NY,NP)/P25(NY)
      IF(NP.GE.NA7(NY)) GO TO 233
      NP = NP + 1
      GO TO 232
  233 IF(IC.EQ.0) GO TO 11
      WRITE(6,1011) NY,P208(NY), (J,P209(NY,J), J = 1,3)
 1011 FORMAT(3HONY,2X,I2,2X,4HP208,2X,F7.2,2X,3(2HNP,2X,I1,2X,4HP209,
     1 2X,F7.2))
   11 IF(NY.GE.NYRS) RETURN
      NY = NY + 1
      GO TO 231
C
      END




      SUBROUTINE ATTRLS(NYRS,P7,P18,IC)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      DIMENSION P7(22),P18(20,3)
C
C  COMPUTE ATTRITIONLESS ENTRIES P7 INTO UPT FOR ALL YEARS
C
      NY = 1
      IND = 0
C
C  COURSE LENGTH IN YEARS FOR YEAR NY
C
   52 NN = NY - IND
      P6 = P18(NN,1)
   53 IF(P6.LE.2.) GO TO 55
C
C  COURSE LENGTH IS GREATER THAN 2 YEARS.
C  PRINT ERROR MESSAGE.
C  TERMINATE EXECUTION.
C
      WRITE(6,51) NY
   51 FORMAT(41H1COURSE LENGTH EXCEEDS TWO YEARS IN YEAR ,I2)
      CALL EXIT
C
C  COURSE LENGTH IN YEAR NY IS LESS THAN OR EQUAL TO TWO YEARS.
C
   55 P7(NY) = 0.
      IF(P6.GT.1.) GO TO 60
C
C  COURSE LENGTH IN YEAR NY IS LESS THAN OR EQUAL TO ONE YEAR.
C
      IF(NY.LE.1) GO TO 56
C
C  YEAR NY IS GREATER THAN 1.
```

```
C   ATTRITIONLESS ENTRIES INTO COURSE THAT WILL MEET GRADUATION
C      REQ. IN YEAR NY.
C
      P7(NY - 1) = P7(NY - 1) + A10(NN)*P6
   56 P7(NY) = A10(NN)*(1. - P6)
   57 IF(NY.GE.NYRS) GO TO 70
   58 NY = NY + 1
      GO TO 52
C
C   COURSE LENGTH IN YEAR NY IS GREATER THAN 1.
C
   60 IF(NY.LE.2) GO TO 65
C
C   YEAR NY IS GREATER THAN 2
C   ATTRITIONLESS ENTRIES INTO COURSE THAT WILL MEET GRADUATION
C      REQ. IN YEAR NY.
C
      P7(NY - 2) = P7(NY - 2) + A10(NN)*(P6 - 1.)
   61 P7(NY - 1) = P7(NY - 1) + A10(NN)*(2. - P6)
      GO TO 57
C
C   YEAR NY IS LESS THAN OR EQUAL TO 2.
C
   65 IF(NY.LE.1.) GO TO 58
C
C   YEAR NY IS GREATER THAN 1
C
      GO TO 61
C
   70 IF(IND.EQ.2) GO TO 69
      IND = IND + 1
      NY = NY + 1
      GO TO 52
   69 IF(IC.EQ.0) RETURN
      WRITE(6,1003) (P7(I), I = 1,NYRS)
 1003 FORMAT(3H0P7,2X,10(F8.2,2X)//)
C
      RETURN
      END




      SUBROUTINE CAP(NYRS,BASES,P1,P17,P25,P18A,P19,P20,P24,P27,P28,P29,
     1               NP30,P31,P36,P103,P33,P208,P209,NPP35,P205,IC)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      COMMON/ONEA/A9(20,3)
      COMMON/THREE/A17(15,3),A18(20,15,3),NA15(20,3)
      DIMENSION P1(20,3),P17(22,3),P25(22),P18A(20,15,3),P19(20,15,3),
     1          P20(20,15,3),P24(20,15,3),P27(20,15,3),P28(20,15),
     2          P29(20),NP30(20),P31(20,15,3),P36(20,15,3),P103(20,15),
     3          P33(20,15,3),P208(20),P209(20,3),NPP35(20,15),P205(20,3)
      DIMENSION P37(3)
C
C   COMPUTE CAPABILITY AND BASE LOADING
C
```

```
      DO 266 I = 1,20
      DO 265 J = 1,15
      DO 264 K = 1,3
      P18A(I,J,K) = 0.
      P19(I,J,K) = 0.
      P20(I,J,K) = 0.
      P24(I,J,K) = 0.
      P27(I,J,K) = 0.
      P31(I,J,K) = 0.
      P36(I,J,K) = 0.
  264 P33(I,J,K) = 0.
      P28(I,J)   = 0.
  265 P103(I,J)  = 0.
      DO 501 K = 1,3
  501 P205(I,K) = 0.
  266 CONTINUE
C
C  SET PREFERENCE RANK
C
      NP34 = 0
      NY = 1
C
C  SET BASE RECOMPUTATION INDICATOR
C
      NP35 = 0
C
C  READ T(56) - T(499) FOR YEAR NY
C
  251 CALL INPUT(NY,3)
C
C  SET MAXIMUM STUDENT LOAD/YEAR NY
C
      P29(NY) = 0.
      IF(NY.GT.1) GO TO 252
C
C  UPT BASES IN YEAR NY
C
      NP30(NY) = BASES + T(477) + .5
C
C  NPP35(NY,NB) WILL INDICATE WHETHER A BASE NB IS A NEW BASE IN YEAR NY.
C
      DO 262 J = 1,20
      DO 262 I = 1,15
  262 NPP35(J,I) = 0
      GO TO 253
  252 NP30(NY) = NP30(NY-1) + T(477) + .5
      IF(T(477).EQ.0.) GO TO 253
      M = NP30(NY - 1) + 1
      N = NP30(NY)
      DO 263 I = M,N
  263 NPP35(NY,I) = 1
  253 NB = 1
  254 IF(T(478).EQ.1.) GO TO 2075
C
C  SET MAXIMUM LOAD FOR BASE NB IN YEAR NY
C
      P28(NY,NB) = 99999.
      GO TO 2C00
 2075 P28(NY,NB) = 0.
 2000 NP = 1
  258 IF(NP35.EQ.1) GO TO 255
C
C  SET ADDITIONAL FLYING AREAS REQUIRED
C
      P37(NP) = 0.
C
C  CHECK CONTRACT DESIGNATOR FOR PHASE NP
C
  255 IF(NA15(NY,NP).NE.1) GO TO 274
C
C  PHASE NP IS A CONTRACTED PHASE
C
  259 IF(NP.GE.NA7(NY)) GO TO 256
  257 NP = NP + 1
      GO TO 258
C
C  MAXIMUM STUDENT LOAD/YEAR
C
  256 IF(T(478).EQ.1.) GO TO 2001
      P29(NY) = P29(NY) + P28(NY,NB)
 2001 IF(NP35.NE.1) GO TO 260
      NP35 = 0
      GO TO 300
  260 IF(IC.EQ.0) GO TO 10
      WRITE(6,1012) NY,NB,(A17(NB,I),A18(NY,NB,I),P18A(NY,NB,I),
     1P19(NY,NB,I),P20(NY,NB,I),P24(NY,NB,I),P27(NY,NB,I),P31(NY,NB,I),
     2P36(NY,NB,I),P33(NY,NB,I),I=1,3),P28(NY,NB),P103(NY,NB),
     3(P205(NY,I), I = 1,3)
 1012 FORMAT( 3HONY,2X,I2,2X,2HNB,2X,I2/3(4H A17,2X,F6.0,2X,
     1                    3HA18,2X,F6.0,2X,4HP18A,2X,F5.2,2X,3HP19,2X,
     2 F6.2,2X,3HP20,2X,F5.2,2X,3HP24,2X,F8.2,2X,3HP27,2X,F8.2,2X,3HP31,
     3 2X,F5.2,2X,3HP36,2X,F5.2,2X,3HP33,2X,F8.2/),4H P28,2X,F8.2,
     4 2X,4HP103,3X,F8.2,3(4HP205,2X,F8.2))
   10 IF(NB.GE.NP30(NY)) GO TO 300
      NB = NB + 1
      GO TO 254
C
C  PHASE NP IS NOT A CONTRACTED PHASE
C
  274 IF(NPP35(NY,NB).NE.0) GO TO 278
  275 IF(NY.GT.1) GO TO 276
C
C  RUNWAYS
C
  278 P18A(NY,NB,NP) = A17(NB,NP) + A18(NY,NB,NP) + P36(NY,NB,NP)
      GO TO 277
  276 P18A(NY,NB,NP) = P18A(NY-1,NB,NP) + A18(NY,NB,NP) + P36(NY,NB,NP)
C
C  EFFECTIVE LAUNCH INTERVAL IN MINUTES(RUNWAY CONSTRAINED)
C
  277 IJ = 3*(NB-1) + NP
      IF(P18A(NY,NB,NP).EQ.0.) GO TO 4000
      P20(NY,NB,NP) = T(IJ+148)/P18A(NY,NB,NP)
 4000 IF(NPP35(NY,NB).NE.0) GO TO 279
      IF(NY.GT.1) GO TO 280
C
C  FLYING AREAS
C
```

```
  279 P19(NY,NB,NP) = T(IJ+283) + T(IJ+328) + P37(NP)
      GO TO 281
  280 P19(NY,NB,NP) = P19(NY-1,NB,NP) + T(IJ+328) + P37(NP)
C
C  EFFECTIVE LAUNCH INTERVAL IN MINUTES(AIRSPACE CONSTRAINED)
C
  281 IF(P19(NY,NB,NP).EQ.0.) GO TO 4001
      P31(NY,NB,NP) = T(NP+464)/P19(NY,NB,NP)
 4001 IF(P31(NY,NB,NP).GE.P20(NY,NB,NP)) GO TO 282
C
C  EFFECTIVE LAUNCH INTERVAL IN MINUTES
C
      P32 = P20(NY,NB,NP)
      GO TO 283
  282 P32 = P31(NY,NB,NP)
C
C  SORTIE PER FLYING DAY CAPABILITY
C
  283 P21 = 0.
      IF(P32.EQ.0.) GO TO 4002
      P21 = (60.*T(464) - T(NP+464))/P32
C
C  EFFECTIVE STUDENT SORTIES PER TRAINING DAY
C
 4002 P22 = P21*(1.-T(NP+467))*T(IJ+193)*T(NP+470)
C
C  STUDENT DAYLIGHT SORTIES/TRAINING DAY/STUDENT REQUIRED
C
      P23 =(A1(NY,NP)/(T(NP+464)/60.))*T(NP+473)/(P1(NY,NP) + A9(NY,NP))
C
C  MAXIMUM PHASE STUDENT LOAD CONSIDERING PHASE NP
C
      IF(P23.EQ.0.) GO TO 4003
      P24(NY,NB,NP) = (P22/P23)*T(IJ+238)
 4003 IF(T(478).NE.1.) GO TO 290
C
C  UPT PROGRAM IS NOT CONSOLIDATED
C
C
C  MAXIMUM STUDENT LOAD/YEAR BY PHASE
C
  291 P205(NY,NP) = P205(NY,NP) + P24(NY,NB,NP)
      P28(NY,NB) = P28(NY,NB) + P24(NY,NB,NP)
      IF(NP35.EQ.1) GO TO 2050
      IF(NP.GE.NA7(NY)) GO TO 2050
      GO TO 257
C
 2050 NP = 1
 2051 IF(NA15(NY,NP).EQ.1) GO TO 2052
 2053 IF(NP.GE.NA7(NY)) GO TO 2055
      NP = NP + 1
      GO TO 2051
 2052 NN = T(479)
      P28(NY,NB) = P28(NY,NB) + P24(NY,NB,NN)*P17(NY,NP)/P17(NY,NN)
      GO TO 2053
 2055 IF(NP35.NE.1) GO TO 260
      NP35 = 0
      GO TO 400
C
```

```
C
C  UPT PROGRAM IS CONSOLIDATED
C  COURSE STUDENT LOAD SUPPORTABLE BY PHASE
C
  290 P27(NY,NB,NP) = P24(NY,NB,NP)*P25(NY)/P17(NY,NP)
      IF(P27(NY,NB,NP).GE.P28(NY,NB)) GO TO 259
C
C  MAXIMUM STUDENT LOAD CONSIDERING ALL PHASES
C
      P28(NY,NB) = P27(NY,NB,NP)
      GO TO 259
C
C  CHECK UPT PROGRAM CONSOLIDATION INDICATOR
C
  300 IF(T(478).EQ.1.)GO TO 400
C
C  UPT PROGRAM IS CONSOLIDATED. COMPARE MAX. STUDENT LOAD/YEAR
C       WITH STUDENT LOAD PLUS SURGE/YEAR.
C
      IF(P29(NY).GE.P208(NY)) GO TO 320
C
C  COMPUTED STUDENT LOAD PLUS SURGE EXCEEDS MAX. STUDENT LOAD.
C     TRY TO EXPAND FACILITIES.
C
 3001 IF(NP34.LT.10) GO TO 302
C
C  STUDENT LOAD PLUS SURGE EXCEEDS CAPACITY IN YEAR NY.
C  THERE IS INSUFFICIENT CAPACITY AFTER ALL POSSIBLE ADDITIONS
C     HAVE BEEN MADE.
C
      WRITE(6,301) NY
  301 FORMAT(50H1STUDENT LOAD PLUS SURGE EXCEEDS CAPACITY IN YEAR ,I2,
     1 1H./76H0THERE IS INSUFFICIENT CAPACITY AFTER ALL POSSIBLE ADDITIO
     2NS HAVE BEEN MADE./39H0PROGRAM EXECUTION HAS BEEN TERMINATED.)
C
      CALL EXIT
C
  302 NP34 = NP34 + 1
C
C  CHECK IF ADDITIONAL UPT BASE IS PREFERRED
C
      IF(T(NP34+479).NE.1.) GO TO 303
C
C  ADD ONE UPT BASE
C
      NP30(NY) = NP30(NY) + 1
      NB = NP30(NY)
      NPP35(NY,NB) = 2
      GO TO 254
C
C  ADDITIONAL UPT BASE IS NOT PREFERRED
C
  303 NB = 1
  304 NP = 1
C
C  CHECK IF AN ADDITIONAL RUNWAY IS PREFERRED
C
  307 IJ = 3*(NB-1) + NP
      NA31 = T(IJ+373)
      IF(NA31.NE.NP34) GO TO 305
C
C  ADDITIONAL RUNWAY REQUIRED
C
      P36(NY,NB,NP) = 1.
      GO TO 310
C
C  CHECK IF ADDITIONAL FLYING AREAS REQUIRED
C
  305 NA32 = T(IJ+418)
      IF(NA32.NE.NP34) GO TO 306
C
C  ADDITIONAL FLYING AREAS REQUIRED
C
      P37(NP) = T(NP34+489)
      GO TO 310
  306 IF(NP.GE.NA7(NY)) GO TO 308
      NP = NP + 1
      GO TO 307
  308 IF(NB.GE.NP30(NY)) GO TO 3001
      NB = NB + 1
      GO TO 304
C
C  SET BASE RECOMPUTATION INDICATOR
C
  310 NP35 = 1
      IF(T(478).EQ.1.) GO TO 311
C
C  MAXIMUM STUDENT LOAD/YEAR
C
      P29(NY) = P29(NY) - P28(NY,NB)
      GO TO 254
C
C  MAXIMUM STUDENT LOAD/YEAR BY PHASE
C
  311 P205(NY,NP) = P205(NY,NP) - P24(NY,NB,NP)
C
C  MAXIMUM STUDENT LOAD CONSIDERING ALL PHASES
C
      P28(NY,NB) = P28(NY,NB) - P24(NY,NB,NP)
C
      NR = 1
 2061 IF(NA15(NY,NR).EQ.1) GO TO 2060
 2062 IF(NR.GE.NA7(NY)) GO TO 275
      NR = NR + 1
      GO TO 2061
 2060 NN = T(479)
      P28(NY,NB) = P28(NY,NB) - P24(NY,NB,NN)*P17(NY,NR)/P17(NY,NN)
      GO TO 2062
C
C  STUDENT LOAD PLUS SURGE DOES NOT EXCEED CAPACITY
C
  320 NB = 1
  321 P103(NY,NB) = 0.
      NP = 1
C
C  STUDENT LOAD BY PHASE,BASE,YEAR
C
  322 P33(NY,NB,NP) = P17(NY,NP)*P28(NY,NB)/P29(NY)
```

```
C
C  STUDENT LOAD FOR ALL PHASES
C
      P103(NY,NB) = P103(NY,NB) + P33(NY,NB,NP)
      IF(NP.GE.NA7(NY)) GO TO 325
      NP = NP + 1
      GO TO 322
  325 IF(IC.EQ.0) GO TO 11
      WRITE(6,1012) NY,NB,(A17(NB,I),A18(NY,NB,I),P18A(NY,NB,I),
     1P19(NY,NB,I),P20(NY,NB,I),P24(NY,NB,I),P27(NY,NB,I),P31(NY,NB,I),
     2P36(NY,NB,I),P33(NY,NB,I),I=1,3),P28(NY,NB),P103(NY,NB),
     3(P205(NY,I),I = 1,3)
   11 IF(NB.GE.NP30(NY)) GO TO 450
      NB = NB + 1
      GO TO 321
C
C  BASE RECOMPUTATICN INDICATOR IS 1 ANC PROGRAM IS NOT CONSOLIDATED.
C
  400 P29(NY) = 99999.
      NP = 1
  401 IF(NA15(NY,NP).NE.1) GO TO 403
  402 IF(NP.GE.NA7(NY)) GO TO 404
      NP = NP + 1
      GO TO 401
  403 A = P205(NY,NP)/(P17(NY,NP)/P25(NY))
      IF(A.LE.P29(NY)) GO TO 2C03
      GO TO 402
 2003 P29(NY) = A
      GO TO 402
C
  404 NP = 1
      IF(NA15(NY,NP).EQ.1) GO TO 410
C
C  COMPARE MAX. STUDENT LOAC/YEAR PHASE NP WITH
C      STUDENT LOAD PLUS SURGE/YEAR PHASE NP.
C
  405 IF(P205(NY,NP).LT.P209(NY,NP)) GO TO 3001
C
C  STUDENT LOAD PLUS SURGE DOES NOT EXCEED CAPACITY
C
  410 IF(NP.GE.NA7(NY)) GO TO 411
      NP = NP + 1
      GO TC 405
  411 NB = 1
  412 P103(NY,NB) = 0.
      NP = 1
  413 IF(NA15(NY,NP).EQ.1) GC TO 414
C
C  STUDENT LOAD BY PHASE,BASE,YEAR
C
      P33(NY,NB,NP) = P17(NY,NP)*P24(NY,NB,NP)/P205(NY,NP)
      GO TO 415
  414 N = T(479)
      P33(NY,NB,NP) = P17(NY,NP)*P24(NY,NB,N)/P205(NY,N)
  415 P103(NY,NB) = P103(NY,NB) + P33(NY,NB,NP)
      IF(NP.GE.NA7(NY)) GO TO 416
      NP = NP + 1
      GO TO 413
  416 IF(IC.EQ.0) GO TO 12
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      WRITE(6,1012) NY,NB,(A17(NB,I),A18(NY,NB,I),P18A(NY,NB,I),
     1P19(NY,NB,I),P20(NY,NB,I),P24(NY,NB,I),P27(NY,NB,I),P31(NY,NB,I),
     2P36(NY,NB,I),P33(NY,NB,I),I=1,3),P28(NY,NB),P103(NY,NB),
     3(P205(NY,I),I = 1,3)
   12 IF(NB.GE.NP30(NY)) GO TO 450
      NB = NB + 1
      GO TO 412
  450 IF(NY.GE.NYRS) RETURN
      NY = NY + 1
      GO TO 251
C
      END




      SUBROUTINE ZERO(P50,P51,P52,P53,P54,P55,P210,P211,P212,P213,P214,
     1                P215,P216,P217,P218,P219,P220,P221,P223,P224,
     2                P225,P226,P227,P228,P229,P60,P90)
      DIMENSION P50(20,15,3),P51(20,15,3),P52(20,15,3),P53(20,15),
     1          P54(20,15),P55(20,15),P210(20,15),P211(20,15),
     2          P212(20,15),P213(20,15),P214(20,15),P215(20,15),
     3          P216(20,15),P217(20,15),P218(20,15),P219(20,15),
     4          P220(20,15),P221(20,15),P223(20,15),P224(20,15),
     5          P225(20,15),P226(20,15),P227(20,15,3),P228(20,15),
     6          P229(20,15),P60(20,15,3), P90(20,3)
C
C  SET TO ZERO THE ACCUMULATING VARIABLES USED IN OPMANP,MAMANP,
C     FSMANP,VSMANP,ACCUM,AND PRINT4.
C
      DO 20 NY = 1,20
      DO 18 NB = 1,15
      DO 10 NP = 1,3
      P50(NY,NB,NP) = 0.
      P51(NY,NB,NP) = 0.
      P52(NY,NB,NP) = 0.
      P227(NY,NB,NP) = 0.
      P60(NY,NB,NP) = 0.
   10 CONTINUE
      P53(NY,NB) = 0.
      P54(NY,NB) = 0.
      P55(NY,NB) = 0.
      P210(NY,NB) = 0.
      P211(NY,NB) = 0.
      P212(NY,NB) = 0.
      P213(NY,NB) = 0.
      P214(NY,NB) = 0.
      P215(NY,NB) = 0.
      P216(NY,NB) = 0.
      P217(NY,NB) = 0.
      P218(NY,NB) = 0.
      P219(NY,NB) = 0.
      P220(NY,NB) = 0.
      P221(NY,NB) = 0.
      P223(NY,NB) = 0.
      P224(NY,NB) = 0.
      P225(NY,NB) = 0.
      P226(NY,NB) = 0.
      P228(NY,NB) = 0.
   18 P229(NY,NB) = 0.
      DO 19 NP = 1,3
   19 P90(NY,NP) = 0.
   20 CONTINUE
C
      RETURN
      END




      SUBROUTINE OPMANP(NY,NB,P2,P16,P33,P39,P38,P46,     P50,P51,P52,
     1                  P53,P54,P55,    P210,P211,P212,      P1,IC)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      COMMON/ONEA/A9(20,3)
      DIMENSION P2(20),P16(20,3),P33(20,15,3),P39(3),P38(3),P46(3),
     1                 P50(20,15,3),P51(20,15,3),P52(20,15,3),
     2          P54(20,15),P55(20,15),        P210(20,15),P211(20,15),
     3          P212(20,15),P53(20,15),P1(20,3)
C
      IF(IC.EQ.0) GO TO 1
      WRITE(6,1014)
 1014 FORMAT(1H1)
C
C  COMPUTE OPERATIONS MANPOWER FOR YEAR NY, BASE NB.
C
C
    1 NP = 1
C
C  INSTRUCTOR PILOTS REQUIRED
C
  503 AA = A1(NY,NP)/(P1(NY,NP)+A9(NY,NP))
      A =          AA*P2(NY)*P33(NY,NB,NP)*T(499+NP) - T(502+NP)
      P38(NP) = T(508 + NP) + (T(505 + NP)/1000.)*A
C
C     PILOT TRAINING SQ. OFFICERS ASSIGNED BY PHASE
C
      P39(NP) = P38(NP)*T(556+NB)
C
C     PILOT TRAINING SQ. PERSONNEL
C
      P210(NY,NB) = P210(NY,NB) + P39(NP)
C
C     OFFICERS LESS STUDENTS BY PHASE
C
      P50(NY,NB,NP) = P50(NY,NB,NP) + P39(NP)
C
      IF(IC.EQ.0) GO TO 2
      WRITE(6,1015) NY,NB,NP,P38(NP),P39(NP),P210(NY,NB),P50(NY,NB,NP)
 1015 FORMAT(3HONY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,3HP38,2X,F7.2,
     1       2X,3HP39,2X,F7.2,2X,4HP210,2X,F7.2,2X,3HP50,2X,F7.2)
C
    2 IF(NP.GE.NA7(NY)) GO TO 505
      NP = NP + 1
      GO TO 503
```

```
C
C      PILOT TRNG. SQ. OFFICERS ASSIGNED - NO PHASE
C
  505 P40 = T(511+NB)*T(526+NB)*T(556+NB)
C
C      PILOT TRAINING SQ. AIRMEN ASSIGNED - NO PHASE
C
      P41 = T(511+NB)*T(541+NB)*T(556+NB)
C
C      PILOT TRNG. SQ. CIVILIANS - NO PHASE
C
      P42 = T(511+NB)*(1.-T(526+NB)-T(541+NB))
C
C  PILOT TRAINING SQ. PERSONNEL
C
      P210(NY,NB) = P210(NY,NB) + P40 + P41 + P42
C
      IF(IC.EQ.0) GO TO 3
      WRITE(6,1016) NY,NB,P40,P41,P42,P210(NY,NB)
 1016 FORMAT(3HONY,2X,I2,2X,2HNB,2X,I2,2X,3HP40,2X,F7.2,2X,3HP41,2X,
     1        F7.2,2X,3HP42,2X,F7.2,2X,4HP210,2X,F7.2)
C
C
    3 NP = 1
C
C  STUDENT SQ. PERSONNEL BY PHASE
C
  506 P46(NP) = (A43(NY,NP)*T(571+NP) + A44(NY,NP)*T(574+NP))
C
C  STUDENT SQ. OFFICERS ASSIGNED BY PHASE
C
      IJ = 3*(NB-1) + NP
      P43 = P46(NP)*T(577+IJ)*T(667+NB)
C
      P50(NY,NB,NP) = P50(NY,NB,NP) + P43
C
C  STUDENT SQ. AIRMEN ASSIGNED BY PHASE
C
      P44 = P46(NP)*T(622+IJ)*T(667+NB)
C
C      AIRMEN BY PHASE
C
      P51(NY,NB,NP) = P51(NY,NB,NP) + P44
C
C  STUDENT SQ. CIVILIANS BY PHASE
C
      P45 = P46(NP)*(1. - T(577+IJ) - T(622+IJ))
C
C  CIVILIANS BY PHASE
C
      P52(NY,NB,NP) = P52(NY,NB,NP) + P45
C
C  STUDENT SQ. PERSONNEL
C
      P211(NY,NB) = P211(NY,NB) + P43 + P44 + P45
C
      IF(IC.EQ.0) GO TO 4
      WRITE(6,1017) NY,NB,NP,P46(NP), P43, P44, P45,     P50(NY,NB,NP),
     1              P51(NY,NB,NP),P52(NY,NB,NP),P211(NY,NB)
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1017 FORMAT(3H0NY,1X,I2,1X,2HNB,1X,I2,1X,2HNP,1X,I2,1X,3HP46,2X,F7.2,
    1       2X,3HP43,2X,F7.2,2X,3HP44,2X,F7.2,2X,3HP45,2X,F7.2,2X,
    2       3HP50,2X,F7.2,2X,3HP51,2X,F7.2,2X,3HP52,2X,F7.2,2X,4HP211,
    3       2X,F7.2)
C
C
   4 IF(NP.GE.NA7(NY)) GO TO 507
     NP = NP + 1
     GO TO 506
C
C  STUDENT SQ. OFFICERS ASSIGNED - NO PHASE
C
 507 P47 = T(682+NB)*T(697+NB)*T(667+NB)
C
C  STUDENT SQ. AIRMEN ASSIGNED - NO PHASE
C
     P48 = T(667+NB)*T(682+NB)*T(712+NB)
C
C  STUDENT SQ. CIVILIANS - NO PHASE
C
     P49 = T(682+NB)*(1. - T(697+NB) - T(712+NB))
C
C  STUDENT SQ. PERSONNEL
C
     P211(NY,NB) = P211(NY,NB) + P47 + P48 + P49
C
     IF(IC.EQ.0) GO TO 5
     WRITE(6,1018) NY,NB,P47,P48,P49,P211(NY,NB)
1018 FORMAT(3H0NY,2X,I2,2X,2HNB,2X,I2,2X,3HP47,2X,F7.2,2X,3HP48,2X,
    1       F7.2,2X,3HP49,2X,F7.2,2X,4HP211,2X,F7.2)
C
C
   5 NP = 1
C
C  SIMULATOR INSTRUCTORS BY PHASE
C
 508 A = A113(NY,NP)*P33(NY,NB,NP)*T(730+NP)/P16(NY,NP)
     P56     = A*T(733+NP)/1000.
C
     IJ = 3*(NB - 1) + NP
C
C  SIMULATOR OFFICERS ASSIGNED BY PHASE
C
     P342 = P56*T(IJ+2531)*T(NB+751)
C
C  SIMULATOR AIRMEN ASSIGNED BY PHASE
     P343 = P56*T(IJ+2576)*T(NB+751)
C
     P50(NY,NB,NP) = P50(NY,NB,NP) + P342
     P51(NY,NB,NP) = P51(NY,NB,NP) + P343
C
C  SIMULATOR BR. PERSONNEL
C
     P212(NY,NB) = P212(NY,NB) + P342 + P343
C
     IF(IC.EQ.0) GO TO 6
     WRITE(6,1019) NY,NB,NP,P56,     P51(NY,NB,NP),P212(NY,NB)
1019 FORMAT(3H0NY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,3HP56,2X,F7.2,
    1       2X,3HP51,2X,F7.2,2X,4HP212,2X,F7.2)
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C
C
    6 IF(NP.GE.NA7(NY)) GO TO 510
      NP = NP + 1
      GO TO 508
C
C  SIMULATOR OFFICERS ASSIGNED - NO PHASE
C
  510 P57 = T(736+NB)*T(751+NB)*T(1430+NB)
C
C  SIMULATOR AIRMEN ASSIGNED - NO PHASE
C
      P58 = T(736+NB)*T(751+NB)*T(1445+NB)
C
C  SIMULATOR CIVILIANS - NO PHASE
C
      P59 = T(736+NB)*(1. - T(1430+NB) - T(1445+NB))
C
C  SIMULATOR BR. PERSONNEL
C
      P212(NY,NB) = P212(NY,NB) + P57 + P58 + P59
C
C
C  OFFICERS LESS STUDENTS - NO PHASE
C
      P53(NY,NB) = P53(NY,NB) + P40 + P47 + P57
C
C  AIRMEN - NO PHASE
C
      P54(NY,NB) = P54(NY,NB) + P41 + P48 + P58
C
C  CIVILIANS - NO PHASE
C
      P55(NY,NB) = P55(NY,NB) + P42 + P49 + P59
C
      IF(IC.EQ.0) GO TO 7
      WRITE(6,1020) NY,NB,P57,P58,P59,P212(NY,NB),P53(NY,NB),P54(NY,NB),
     1              P55(NY,NB)
 1020 FORMAT(3H0NY,2X,I2,2X,2HNB,2X,I2,2X,3HP57,2X,F7.2,2X,3HP58,2X,
     1       F7.2,2X,3HP59,2X,F7.2,2X,4HP212,2X,F7.2,2X,3HP53,2X,F7.2,
     2       2X,3HP54,2X,F7.2,2X,3HP55,2X,F7.2)
C
    7 RETURN
      END




      SUBROUTINE MAMANP(NY,NB,P1,P2,P33,P39,P16,P38,P46,P50,P51,P52,
     1                 P53,P54,P55,P73,P60,P90,P176,P213,P214,P215,
     2                 P61,P65,P69,P177,IC)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20),NA7(20),A43(20,3),A44(20,3),
     1A113(20,3),A10(20)
      COMMON/ONEA/A9(20,3)
      DIMENSION P1(20,3),P2(20),P33(20,15,3),P39(3),P38(3),P46(3),
     1                P50(20,15,3),P51(20,15,3),P52(20,15,3),
     2         P53(20,15),P54(20,15),P55(20,15),       P60(20,15,3),
     3           P90(20,3),P176(3),P213(20,15),P214(20,15),P215(20,15),
     4           P16(20,3),P61(3),P65(3),P69(3)
C
C     COMPUTE MAINTENANCE AND ADMINISTRATIVE MANPOWER FOR YEAR NY, BASE NB
C
C
      NP = 1
  515 IF(NB.NE.1) GO TO 516
C    .
C     SET FLYING HRS. FOR ALL BASES = 0
C
      P90(NY,NP) = 0.
  516 IF(NP.EQ.1) GO TO 517
C
C     FLYING HOURS/YEAR
C
      A=P33(NY,NB,NP)*(A1(NY,NP)/(P1(NY,NP)+A9(NY,NP)))*P2(NY)*
     1  (1. + T(769+NP))
      P60(NY,NB,NP)=(A+T(766+NP)*P39(NP))*(1.+T(772+NP))
      GO TO 518
  517 A = P33(NY,NB,NP)*T(1054)*P2(NY)*(1.+T(769+NP))/(P1(NY,NP) +
     1  A9(NY,NP))
      P60(NY,NB,NP)=(A + T(766+NP)*P39(NP))*(1. + T(772+NP))
C
C     FLYING HOURS FOR ALL BASES
C
  518 P90(NY,NP) = P90(NY,NP) + P60(NY,NB,NP)
C
C     FIELD MAINT. PERSONNEL BY PHASE
C
      IJ = 3*(NB-1) + NP
      P61(NP) = P60(NY,NB,NP)*T(775+NP) + T(778+IJ)
C
C     FIELD MAINT. OFFICERS ASGN. BY PHASE
C
      P62 = P61(NP)*T(823+NB)*T(853+NB)
C
C     FIELD MAINT. AIRMEN ASSIGNED BY PHASE
C
      P63 = P61(NP)*T(838+NB)*T(853+NB)
C
C     FIELD MAINT. CIVILIANS BY PHASE
C
      P64 = P61(NP)*(1. - T(823+NB) - T(838+NB))
C
      IF(IC.EQ.0) GO TO 1
      WRITE(6,1021) NY,NB,NP,P60(NY,NB,NP),P90(NY,NP),P61(NP),P62,
     1   P63,P64
 1021 FORMAT(3H0NY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,3HP60,2X,F9.2,
     1       2X,3HP90,2X,F9.2,2X,3HP61,2X,F7.2,2X,3HP62,2X,F7.2,2X,3HP63,
     2        2X,F7.2,2X,3HP64,2X,F7.2)
C
C
C     ORGAN. MAINT. PERSONNEL BY PHASE
C
    1 P65(NP) = P60(NY,NB,NP)*T(868+NP) + T(871+IJ)
C
C     ORGAN. MAINT. OFFICERS ASSIGNED BY PHASE
C
```

```
      P66 = P65(NP)*T(916+NB)*T(946+NB)
C
C  ORGAN. MAINT. AIRMEN ASSIGNED BY PHASE
C
      P67 = P65(NP)*T(931+NB)*T(946+NB)
C
C  ORGAN. MAINT. CIVILIANS BY PHASE
C
      P68 = P65(NP)*(1.-T(916+NB)-T(931+NB))
C
      IF(IC.EQ.0) GO TO 2
      WRITE(6,1022) P65(NP), P66,P67,P68
 1022 FORMAT(1H0,24X,3HP65,2X,F7.2,2X,3HP66,2X,F7.2,2X,3HP67,2X,F7.2,2X,
     1       3HP68,2X,F7.2)
C
C
C  PILOT TRNG. WING PERSONNEL BY PHASE
C
    2 P69(NP) = T(962)*(P33(NY,NB,NP)+P38(NP)+P46(NP)+
     1 (A113(NY,NP)/P16(NY,NP))*P33(NY,NB,NP)*T(NP+730)*T(NP+733)/1000.)
     2  +T(963)*(P61(NP) +P65(NP))
C
C  PILOT TRNG. WG. OFFICERS ASGN. BY PHASE
C
      P70 = P69(NP)*T(978+NB)*T(1008+NB)
C
C  PILOT TRNG. WG. AIRMEN ASGN. BY PHASE
C
      P71 = P69(NP)*T(993+NB)*T(1008+NB)
C
C  PILOT TRNG. WG. CIVILIANS BY PHASE
C
      P72 = P69(NP)*(1.-T(978+NB)-T(993+NB))
C
      IF(IC.EQ.0) GO TO 3
      WRITE(6,1023) P69(NP),P70,P71,P72
 1023 FORMAT(1H0,24X,3HP69,2X,F7.2,2X,3HP70,2X,F7.2,2X,3HP71,2X,F7.2,2X,
     1       3HP72,2X,F7.2)
C
C
    3 P50(NY,NB,NP) = P50(NY,NB,NP) + P62 + P66 + P70
      P51(NY,NB,NP) = P51(NY,NB,NP) + P63 + P67 + P71
      P52(NY,NB,NP) = P52(NY,NB,NP) + P64 + P68 + P72
      P176(NP) = P50(NY,NB,NP)+P51(NY,NB,NP)+P52(NY,NB,NP)
C  FIELD MAINT. PERSONNEL
C
      P213(NY,NB) = P213(NY,NB) + P63 + P64 + P62
C
C
C  ORGAN. MAINT. PERSONNEL
      P214(NY,NB) = P214(NY,NB) + P66 + P67 + P68
C
C  PILOT TRNG. WG. PERSONNEL
C
      P215(NY,NB) = P215(NY,NB) + P70 + P71 + P72
C
      IF(IC.EQ.0) GO TO 4
      WRITE(6,1024) P50(NY,NB,NP),P51(NY,NB,NP),P52(NY,NB,NP),P176(NP),
     1              P213(NY,NB),P214(NY,NB),P215(NY,NB)
 1024 FORMAT(1H0,24X,3HP50,2X,F7.2,2X,3HP51,2X,F7.2,2X,3HP52,2X,F7.2,2X,
     1        4HP176,2X,F7.2,2X,4HP213,2X,F7.2,2X,4HP214,2X,F7.2,2X,
     2        4HP215,2X,F7.2)
C
C
    4 IF(NP.GE.NA7(NY)) GO TO 520
      NP = NP + 1
      GO TO 515
C
C
C  FIELD MAINT. OFFICERS ASSIGNED - NO PHASE
C
  520 P199 = T(1023+NB)*T(823+NB)*T(853+NB)
C
C  FIELD MAINT. AIRMEN ASNG. - NO PHASE
C
      P200 = T(1023+NB)*T(838+NB)*T(853+NB)
C
C  FIELD MAINT. CIVILIANS - NO PHASE
C
      P201 = T(1023+NB)*(1.-T(823+NB)-T(838+NB))
C
C  ORGAN. MAINT. OFFICERS ASSIGNED - NO PHASE
C
      P202 = T(1038+NB)*T(916+NB)*T(946+NB)
C
C  ORGAN. MAINT. AIRMEN ASSIGNED - NO PHASE
C
      P203 = T(1038+NB)*T(931+NB)*T(946+NB)
C
C  ORGAN. MAINT. CIVILIANS - NO PHASE
C
      P204 = T(1038+NB)*(1.-T(916+NB)-T(931+NB))
C
      IF(IC.EQ.0) GO TO 5
      WRITE(6,1026) P199,P200,P201,P202,P203,P204
 1026 FORMAT(1H0,17X,4HP199,2X,F7.2,2X,4HP200,2X,F7.2,2X,4HP201,2X,F7.2,
     1        2X,4HP202,2X,F7.2,2X,4HP203,2X,F7.2,2X,4HP204,2X,F7.2)
C
C  OTHER PILOT TRNG. WG. PERSONNEL
C
    5 P73 = T(963+NB) + T(962)*(T(NB+511)+T(NB+682)+T(NB+736)) +
     1  T(963)*(T(NB+1023) + T(NB+1038))
C
C  PILOT TRNG. WG. OFFICERS ASGN. - NO PHASE
C
      P74 = P73*T(978+NB)*T(1008+NB)
C
C  PILOT TRNG. WG. AIRMEN ASGN. - NO PHASE
C
      P75 = P73*T(993+NB)*T(1008+NB)
C
C  PILOT TRNG. WG. CIVILIANS - NO PHASE
C
      P76 = P73*(1.-T(978+NB)-T(993+NB))
C
      IF(IC.EQ.0) GO TO 6
      WRITE(6,1025) NY,NB,P73,P74,P75,P76
 1025 FORMAT(3H0NY,2X,I2,2X,2HNB,2X,I2,2X,3HP73,2X,F7.2,2X,3HP74,2X,
    1       F7.2,2X,3HP75,2X,F7.2,2X,3HP76,2X,F7.2)
C
C
C  OFFICERS LESS STUDENTS - NO PHASE
C
     6 P53(NY,NB) = P53(NY,NB) + P74 + P199 + P202
C
C  AIRMEN - NO PHASE
C
      P54(NY,NB) = P54(NY,NB) + P75 + P200 + P203
C
C  CIVILIANS - NO PHASE
C
      P55(NY,NB) = P55(NY,NB) + P76 + P201 + P204
C
C  OPER., MAINT. AND ADMIN. PERSONNEL - NO PHASE
C
      P177  =    P53(NY,NB) + P54(NY,NB) + P55(NY,NB)
C
C  FIELD MAINT. PERSONNEL
C
      P213(NY,NB) = P213(NY,NB) + P199 + P200 + P201
C
C  ORGAN. MAINT. PERSONNEL
C
      P214(NY,NB) = P214(NY,NB) + P202 + P203 + P204
C
C  PILOT TRNG. WG. PERSONNEL
C
      P215(NY,NB) = P215(NY,NB) + P74 + P75 + P76
C
      IF(IC.EQ.0) RETURN
      WRITE(6,1027) P53(NY,NB),P54(NY,NB),P55(NY,NB),P177,P213(NY,NB),
     1              P214(NY,NB),P215(NY,NB)
 1027 FORMAT(1H0,17X,3HP53,2X,F7.2,2X,3HP54,2X,F7.2,2X,3HP55,2X,F7.2,2X,
     1       4HP177,2X,F7.2,2X,4HP213,2X,F7.2,2X,4HP214,2X,F7.2,2X,
     2       4HP215,2X,F7.2)
C
      RETURN
      END




      SUBROUTINE FSMANP(NY,NB,P216,P217,P218,P219,P53,P54,P55,IC)
      COMMON/ARRAY/T(2625)
      DIMENSION P216(20,15),P217(20,15),P218(20,15),P219(20,15),
     1          P53(20,15),P54(20,15),P55(20,15)
C
C  COMPUTE FIXED SUPPORT MANPOWER FOR YEAR NY, BASE NB.
C
C
C  SUPPLY SQUADRON OFFICERS ASSIGNED - NO PHASE
C
      P77 = T(1054+NB)*T(1069+NB)*T(1099+NB)
C
C  SUPPLY SQ. AIRMEN ASSIGNED - NO PHASE
C
```

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      P78 = T(1054+NB)*T(1084+NB)*T(1099+NB)
C
C  SUPPLY SQ. CIVILIANS - NO PHASE
C
      P79 = T(1054+NB)*(1.-T(1069+NB)-T(1084+NB))
C
C  SUPPLY PERSONNEL
C
      P216(NY,NB) = P216(NY,NB) + P77 + P78 + P79
C
      IF(IC.EQ.0) GO TO 1
      WRITE(6,1028) P77,P78,P79,P216(NY,NB)
 1028 FORMAT(1H0,16X,3HP77,2X,F7.2,2X,3HP78,2X,F7.2,2X,3HP79,2X,F7.2,2X,
     1       4HP216,2X,F7.2)
C
C
C  FIELD TRNG. SQ. OFFICERS ASSIGNED - NO PHASE
C
    1 P80 = T(1114+NB)*T(1129+NB)*T(1159+NB)
C
C  FIELD TRNG. SQ. AIRMEN ASSIGNED - NO PHASE
C
      P81 = T(1114+NB)*T(1144+NB)*T(1159+NB)
C
C  FIELD TRNG. SQ. CIVILIANS - NO PHASE
C
      P82 = T(1114+NB)*(1.-T(1129+NB)-T(1144+NB))
C
C  FIELD TRNG. PERSONNEL
C
      P217(NY,NB) = P217(NY,NB) + P80 + P81 + P82
C
      IF(IC.EQ.0) GO TO 2
      WRITE(6,1029) P80,P81,P82,P217(NY,NB)
 1029 FORMAT(1H0,16X,3HP80,2X,F7.2,2X,3HP81,2X,F7.2,2X,3HP82,2X,F7.2,2X,
     1       4HP217,2X,F7.2)
C
C
C  SUPPORT SQ. OFFICERS ASSIGNED - NO PHASE
C
    2 P83 = T(1174+NB)*T(1189+NB)*T(1219+NB)
C
C  SUPPORT SQ. AIRMEN ASSIGNED - NO PHASE
C
      P84 = T(1174+NB)*T(1204+NB)*T(1219+NB)
C
C  SUPPORT SQ. CIVILIANS - NO PHASE
C
      P85 = T(1174+NB)*(1.-T(1189+NB)-T(1204+NB))
C
C  SUPPORT PERSONNEL
      P218(NY,NB) = P218(NY,NB) + P83 + P84 + P85
C
      IF(IC.EQ.0) GO TO 3
      WRITE(6,1030) P83,P84,P85,P218(NY,NB)
 1030 FORMAT(1H0,16X,3HP83,2X,F7.2,2X,3HP84,2X,F7.2,2X,3HP85,2X,F7.2,2X,
     1       4HP218,2X,F7.2)
C
C
C
```

```
C   SUPPORT TENANT OFFICERS ASSIGNED - NO PHASE
C
    3 P86 = T(1234+NB)*T(1249+NB)*T(1279+NB)
C
C   SUPPORT TENANT AIRMEN ASSIGNED - NO PHASE
C
      P87 = T(1234+NB)*T(1264+NB)*T(1279+NB)
C
C   SUPPORT TENANT CIVILIANS - NO PHASE
C
      P88 = T(1234+NB)*(1.-T(1249+NB)-T(1264+NB))
C
C   SUPPORT TENANTS
C
      P219(NY,NB) = P219(NY,NB) + P86 +  P87 + P88
C
C   OFFICERS LESS STUDENTS - NO PHASE
C
      P53(NY,NB) = P53(NY,NB)+P77 + P80+ P83 + P86
C
C   AIRMEN - NO PHASE
C
      P54(NY,NB) = P54(NY,NB)+P78+P81+P84+P87
C
C   CIVILIANS - NO PHASE
C
      P55(NY,NB) = P55(NY,NB)+P79+P82+P85+P88
C
      IF(IC.EQ.0) RETURN
      WRITE(6,1031) P86,P87,P88,P219(NY,NB),P53(NY,NB),P54(NY,NB),
     1              P55(NY,NB)
 1031 FORMAT(1H0,16X,3HP86,2X,F7.2,2X,3HP87,2X,F7.2,2X,3HP88,2X,F7.2,2X,
     1       4HP219,2X,F7.2,2X,3HP53,2X,F7.2,2X,3HP54,2X,F7.2,2X,
     2       3HP55,2X,F7.2)
C
C
      RETURN
      END




      SUBROUTINE VSMANP(NY,NB,P33,P50,P51,P52,P53,P54,P55,P176,P177,
     1                  P220,P221,P16,P38,P46,P73,P61,P65,P69,IC)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      DIMENSION P33(20,15,3),P50(20,15,3),P51(20,15,3),P52(20,15,3),
     1          P53(20,15),P54(20,15),P55(20,15),P176(3),
     2          P220(20,15),P221(20,15),P16(20,3),P38(3),P46(3),
     3          P61(3),P65(3),P69(3)
C
C   COMPUTE VARIABLE SUPPORT MANPOWER FOR YEAR NY, BASE NB.
C
C
      NP =1
C
C   AIR BASE GP. PERSONNEL BY PHASE
```

```
C
  525 P171 = T(1310)*(P33(NY,NB,NP)+P38(NP)+P46(NP)+
     1   (A113(NY,NP)/P16(NY,NP))*P33(NY,NB,NP)*T(NP+730)*
     2  T(NP+733)/1000. + P61(NP) + P65(NP) + P69(NP))
C
C   AIR BASE GP. OFFICERS BY PHASE
C
      P172 = P171*T(1310+NB)*T(1340+NB)
C
C   AIR BASE GP. AIRMEN BY PHASE
C
      P173 = P171*T(1325+NB)*T(1340+NB)
C
C   AIR BASE GP. CIVILIANS BY PHASE
C
      P174 = P171*(1.-T(1310+NB)-T(1325+NB))
C
C   AIR BASE GP. PERSONNEL
C
      P220(NY,NB) = P220(NY,NB) +P172 + P173 + P174
C
      IF(IC.EQ.0) GO TO 1
      WRITE(6,1032) NY,NB,NP,P171,P172,P173,P174,P220(NY,NB)
 1032 FORMAT(3H0NY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,4HP171,2X,F7.2,
     1       2X,4HP172,2X,F7.2,2X,4HP173,2X,F7.2,2X,4HP174,2X,F7.2,2X,
     2       4HP220,2X,F7.2)
C
C
C   HOSPITAL(DISPENSARY) PERSONNEL BY PHASE
C
    1 IJ = 3*(NB - 1) + NP
      P175 = T(1370+NB)*(P33(NY,NB,NP)+P38(NP)+P46(NP)*(T(IJ+577) +
     1  T(IJ+622))+(A113(NY,NP)/P16(NY,NP))*P33(NY,NB,NP)*T(NP+730)*
     2     T(NP+733)/1000. + P61(NP)*(T(NB+823)+T(NB+838)) +
     3  P65(NP)*(T(NB+916)+T(NB+931)) + P69(NP)*(T(NB+978)+T(NB+993))+
     4  P171*(T(NB+1310)+T(NB+1325)))
C
C   HOSPITAL(DISPENSARY) OFFICERS BY PHASE
C
      P178 = P175*T(1385+NB)*T(1415+NB)
C
C   HOSPITAL(DISPENSARY) AIRMEN BY PHASE
C
      P179 = P175*T(1400+NB)*T(1415+NB)
C
C   HOSPITAL(DISPENSARY) CIVILIANS BY PHASE
C
      P180 = P175*(1.-T(1385+NB)-T(1400+NB))
C
C   HOSPITAL(DISPENSARY) PERSONNEL
C
      P221(NY,NB) = P221(NY,NB) + P178 + P179 + P180
C
      IF(IC.EQ.0) GO TO 2
      WRITE(6,1033) P175,P178,P179,P180,P221(NY,NB)
 1033 FORMAT(1H0,24X,4HP175,2X,F7.2,2X,4HP178,2X,F7.2,2X,4HP179,2X,F7.2,
     1       2X,4HP180,2X,F7.2,2X,4HP221,2X,F7.2)
C
C
```

```
C   OFFICERS LESS STUDENTS BY PHASE
C
    2 P50(NY,NB,NP) = P50(NY,NB,NP) + P172 + P178
C
C   AIRMEN BY PHASE
C
      P51(NY,NB,NP) = P51(NY,NB,NP) + P173 + P179
C
C   CIVILIANS BY PHASE
C
      P52(NY,NB,NP) = P52(NY,NB,NP) + P174 + P180
C
      IF(IC.EQ.0) GO TO 3
      WRITE(6,1034) P50(NY,NB,NP),P51(NY,NB,NP),P52(NY,NB,NP)
 1034 FORMAT(1H0,24X,3HP50,2X,F7.2,2X,3HP51,2X,F7.2,2X,3HP52,2X,F7.2)
C
C
    3 IF(NP.GE.NA7(NY)) GO TO 530
      NP = NP + 1
      GO TO 525
C
C   AIR BASE GROUP PERSONNEL - NO PHASE
C
  530 P181 = T(1294+NB)+T(1310)*(T(NB+511)+T(NB+682)+T(NB+736)+
     1  T(NB+1023)+T(NB+1038)+P73)
C
C   AIR BASE GROUP OFFICERS - NO PHASE
C
      P182 = P181*T(1310+NB)*T(1340+NB)
C
C   AIR BASE GROUP AIRMEN - NO PHASE
C
      P183 = P181*T(1325+NB)*T(1340+NB)
C
C   AIR BASE GROUP CIVILIANS - NO PHASE
C
      P184 = P181*(1.-T(1310+NB)-T(1325+NB))
C
C   AIR BASE GROUP PERSONNEL
C
      P220(NY,NB) = P220(NY,NB) + P182 + P183 + P184
C
      IF(IC.EQ.0) GO TO 4
      WRITE(6,1035) NY,NB,P181,P182,P183,P184,P220(NY,NB)
 1035 FORMAT(3H0NY,2X,I2,2X,2HNB,2X,I2,2X,4HP181,2X,F7.2,2X,4HP182,2X,
     1        F7.2,2X,4HP183,2X,F7.2,2X,4HP184,2X,F7.2,2X,4HP220,2X,F7.2)
C
C
C   HOSPITAL(DISPENSARY) PERSONNEL - NO PHASE
C
    4 P185 = T(1355+NB)+T(1370+NB)*(T(NB+511)*(T(NB+526)+T(NB+541))+
     1   T(NB+682)*(T(NB+697)+T(NB+712))+T(NB+736)*(T(NB+1430)+
     2  T(NB+1445))+T(NB+1023)*(T(NB+823)+T(NB+838))+T(NB+1038)*
     3  (T(NB+916)+T(NB+931))+P73*(T(NB+978)+T(NB+993))+T(NB+1054)*
     5  (T(NB+1069)+T(NB+1084))+T(NB+1114)*(T(NB+1129)+T(NB+1144))+
     6  T(NB+1174)*(T(NB+1189)+T(NB+1204))+T(NB+1234)*(T(NB+1249)+
     7  T(NB+1264))+P181*(T(NB+1310)+T(NB+1325)))
C
C   HOSPITAL(DISPENSARY) OFFICERS - NO PHASE
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```
C
      P186 = P185*T(1385+NB)*T(1415+NB)
C
C  HOSPITAL(DISPENSARY) AIRMEN - NO PHASE
C
      P187 = P185*T(1400+NB)*T(1415+NB)
C
C  HOSPITAL(DISPENSARY) CIVILIANS - NO PHASE
C
      P188 = P185*(1.-T(1385+NB)-T(1400+NB))
C
C  HOSPITAL(DISPENSARY) PERSONNEL
C
      P221(NY,NB) = P221(NY,NB) + P186 + P187 + P188
C
      IF(IC.EQ.0) GO TO 5
      WRITE(6,1036) P185,P186,P187,P188,P221(NY,NB)
 1036 FORMAT(1H0,16X,4HP185,2X,F7.2,2X,4HP186,2X,F7.2,2X,4HP187,2X,F7.2,
     1       2X,4HP188,2X,F7.2,2X,4HP221,2X,F7.2)
C
C
C  OFFICERS LESS STUDENTS - NO PHASE
C
    5 P53(NY,NB) = P53(NY,NB) + P182 + P186
C
C  AIRMEN - NO PHASE
C
      P54(NY,NB) = P54(NY,NB) + P183 + P187
C
C  CIVILIANS - NO PHASE
C
      P55(NY,NB) = P55(NY,NB) + P184 + P188
C
      IF(IC.EQ.0) RETURN
      WRITE(6,1037) P53(NY,NB),P54(NY,NB),P55(NY,NB)
 1037 FORMAT(1H0,16X,3HP53,2X,F7.2,2X,3HP54,2X,F7.2,2X,3HP55,2X,F7.2)
C
      RETURN
      END




      SUBROUTINE ACCUM(NY,NB,P50,P51,P52,P53,P54,P55,P103,P223,P224,
     1              P225,P226,P227,P228,P229,IC)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      DIMENSION P50(20,15,3),P51(20,15,3),P52(20,15,3),P53(20,15),
     1          P54(20,15),P55(20,15),P103(20,15),P223(20,15),
     2          P224(20,15),P225(20,15),P226(20,15),P227(20,15,3),
     3          P228(20,15),P229(20,15)
C
C  ACCUMULATE MANPOWER PERSONNEL FOR YEAR NY, BASE NB.
C
C
      NP = 1
C
C  OFFICERS BY BASE
```

```
C
  540 P223(NY,NB) = P223(NY,NB) + P50(NY,NB,NP)
C
C  AIRMEN BY BASE
C
      P224(NY,NB) = P224(NY,NB) + P51(NY,NB,NP)
C
C  CIVILIANS BY BASE
C
      P225(NY,NB) = P225(NY,NB) + P52(NY,NB,NP)
C
C  PERSONNEL BY PHASE AND BASE
C
      P227(NY,NB,NP) = P50(NY,NB,NP) + P51(NY,NB,NP) + P52(NY,NB,NP)
C
      IF(IC.EQ.0) GO TO 1
      WRITE(6,1038) NY,NB,NP,P223(NY,NB),P224(NY,NB),P225(NY,NB),
     1              P227(NY,NB,NP)
 1038 FORMAT(3HONY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,4HP223,2X,F7.2,
     1       2X,4HP224,2X,F7.2,2X,4HP225,2X,F7.2,2X,4HP227,2X,F7.2)
C
C
    1 IF(NP.GE.NA7(NY)) GO TO 550
      NP = NP + 1
      GO TO 540
C
  550 P223(NY,NB) = P223(NY,NB) + P53(NY,NB)
      P224(NY,NB) = P224(NY,NB) + P54(NY,NB)
      P225(NY,NB) = P225(NY,NB) + P55(NY,NB)
C
C  PERSONNEL BY BASE
C
      P226(NY,NB) = P223(NY,NB) + P224(NY,NB) + P225(NY,NB)
C
C  STUDENTS PLUS PERMANENT PARTY
C
      P229(NY,NB) = P226(NY,NB) + P103(NY,NB)
C
C  PERSONNEL BY BASE - NO PHASE
C
      P228(NY,NB) = P53(NY,NB) + P54(NY,NB) + P55(NY,NB)
C
      IF(IC.EQ.0) RETURN
      WRITE(6,1039) NY,NB,P223(NY,NB),P224(NY,NB),P225(NY,NB),
     1              P226(NY,NB),P229(NY,NB),P228(NY,NB)
 1039 FORMAT(3HONY,2X,I2,2X,2HNB,2X,I2,2X,4HP223,2X,F7.2,2X,4HP224,2X,
     1       F7.2,2X,4HP225,2X,F7.2,2X,4HP226,2X,F7.2,2X,4HP229,2X,
     2       F7.2,2X,4HP228,2X,F7.2)
C
      RETURN
      END




      SUBROUTINE EQUIP(NYRS,P1,P33,P90,P91,P92,P94,P95,P230,P231,P234,
     1                 P300,P167,NP30,NPP35,P96,P93,IC)
      DIMENSION P1(20,3),P33(20,15,3),P90(20,3),P91(20,3),P92(20,3),
     1          P94(20,15,3),P95(20,15,3),P230(20,3),P231(20,15,3),
     2          P234(20,15),P300(20,3),P167(20,15),NP30(20),NPP35(20,15)
      DIMENSION P96(20,3),P93(20,15,3)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
      COMMON/FIVEA/NA250(20,3), NA251(20,3)
C
C  COMPUTE EQUIPMENT FOR EACH YEAR, BASE, AND PHASE
C
      DO 10 I = 1,20
      DO 8 J = 1,15
      DO 5  K = 1,3
      P93(I,J,K) = 0.
      P94(I,J,K) = 0.
      P95(I,J,K) = 0.
    5 P231(I,J,K) = 0.
      P234(I,J)   = 0.
    8 P167(I,J)   = 0.
      DO 9 K = 1,3
      P91(I,K) = 0.
      P92(I,K) = 0.
      P96(I,K) = 0.
      P230(I,K) = 0.
    9 P300(I,K) = 0.
   10 CONTINUE
C
      IF(IC.EQ.0) GO TO 1
      WRITE(6,6)
    6 FORMAT(1H1)
C
C
    1 NY = 1
C
C  READ T(1461) - T(1625) FOR YEAR NY.
C
   20 CALL INPUT(NY,5)
C
      NP = 1
C
C  AIRCRAFT REQUIRED FOR ALL BASES
C
   25 IF(T(NP+1460).EQ.0.) GO TO 26
      P96(NY,NP) = P90(NY,NP)/(12.*T(NP+1460))
C
C  AIRCRAFT ATTRITION LOSSES
C
   26 P300(NY,NP) = T(NP+1469)*P90(NY,NP)/100000.
C
C  CHECK IF THERE IS A NEW A/C TYPE IN PHASE NP
C
      IF(NA250(NY,NP).EQ.1) GO TO 27
      IF(NY.GT.1) GO TO 30
C
C  AIRCRAFT AVAILABLE BEFORE MODEL PROCUREMENT
C
   27 P91(NY,NP) =T(NP+1463) + A111(NY,NP) - P300(NY,NP)
C
```

```
C  AIRCRAFT AVAILABLE BEGINNING OF YEAR
C
       P230(NY,NP) = T(NP+1463)
       GO TO 35
C
   30 P91(NY,NP) = P91(NY-1,NP)+A111(NY,NP) + P92(NY-1,NP)-P300(NY,NP)
       P230(NY,NP)=P230(NY-1,NP)+A111(NY-1,NP)+P92(NY-1,NP)-P300(NY-1,NP)
C
   35 IF(P91(NY,NP).GE.P96(NY,NP)) GO TO 40
C
C  AIRCRAFT PROCURED BY MODEL
C
       P92(NY,NP) = P96(NY,NP) - P91(NY,NP)
C
       GO TO 45
   40 P92(NY,NP) = 0.
C
   45 IF(IC.EQ.0) GO TO 2
       WRITE(6,110) NY,NP,P96(NY,NP),P91(NY,NP),P230(NY,NP),P300(NY,NP),
     1              P92(NY,NP)
  110 FORMAT(3HONY,2X,I2,2X,2HNP,2X,I2,2X,3HP96,2X,F7.2,2X,3HP91,2X,
     1        F7.2,2X,4HP230,2X,F7.2,2X,4HP300,2X,F7.2,2X,3HP92,2X,F7.2)
C
    2 NB = 1
C
C  SIMULATORS REQUIRED
C
   46 IF(P1(NY,NP).EQ.0..OR.T(NP+1472).EQ.0.) GO TO 460
       P93(NY,NB,NP)=(P33(NY,NB,NP)*A113(NY,NP)/P1(NY,NP))/T(NP+1472)
C
C
C  CHECK IF BASE NB IS NEW IN YEAR NY
C
  460 IF(NPP35(NY,NB).NE.0) GO TO 47
C
C  CHECK IF THERE IS A NEW SIMULATOR IN PHASE NP
C
       IF(NA251(NY,NP).EQ.1) GO TO 47
       IF(NY.GT.1) GO TO 50
C
C  SIMULATORS AVAILABLE BEFORE MODEL PROCUREMENT
C
   47 IJ = 3*(NB-1) + NP
       P94(NY,NB,NP) = T(IJ+1475) + A116(NY,NB,NP)
C
C  SIMULATORS AVAILABLE BEGINNING OF YEAR
C
       P231(NY,NB,NP) = T(IJ+1475)
       GO TO 55
C
   50 P94(NY,NB,NP) = P94(NY-1,NB,NP)+A116(NY,NB,NP)+P95(NY-1,NB,NP)
       P231(NY,NB,NP) = P231(NY-1,NB,NP)+A116(NY-1,NB,NP)+P95(NY-1,NB,NP)
C
   55 IF(P94(NY,NB,NP).GE.P93(NY,NB,NP)) GO TO 60
       P95(NY,NB,NP) = P93(NY,NB,NP) - P94(NY,NB,NP)
       GO TO 65
C
C  SIMULATORS PROCURED BY MODEL
C
```

```
   60 P95(NY,NB,NP) = 0.
C
   65 IF(IC.EQ.0) GO TO 3
      WRITE(6,120) NY,NB,NP,P93(NY,NB,NP),P94(NY,NB,NP),P231(NY,NB,NP),
     1              P95(NY,NB,NP),A116(NY,NB,NP)
  120 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,3HP93,2X,F7.2,
     1       2X,3HP94,2X,F7.2,2X,4HP231,2X,F7.2,2X,3HP95,2X,F7.2,
     2       2X,4HA116,2X,F4.0)
C
    3 IF(NB.GE.NP30(NY)) GO TO 70
      NB = NB + 1
      GO TO 46
C
   70 IF(NP.GE.NA7(NY)) GC TC 75
      NP = NP + 1
      GO TO 25
C
   75 NB = 1
C
C  CHECK IF BASE NB IS NEW IN YEAR NY
C
      IF(NPP35(NY,NB).NE.0) GO TO 77
   76 IF(NY.GT.1) GO TO 80
C
C  SUPPORT AIRCRAFT
C
   77 P167(NY,NB) = T(NB+1580) + A147(NY,NB)
C
C  RESCUE AND RECOVERY AIRCRAFT
C
      P234(NY,NB) = T(NB+1565) + A146(NY,NB)
      GO TO 85
C
   80 P167(NY,NB) = P167(NY-1,NB) + A147(NY,NB)
      P234(NY,NB) = P234(NY-1,NB) + A146(NY,NB)
C
   85 IF(IC.EQ.0) GO TO 4
      A = T(NB+1580)
      B = T(NB+1565)
      WRITE(6,130) NY,NB,P167(NY,NB),P234(NY,NB),A,B,
     2  A147(NY,NB),A146(NY,NB)
  130 FORMAT(3HONY,2X,I2,2X,2HNB,2X,I2,2X,4HP167,2X,F7.2,2X,4HP234,
     1       2X,F7.2,2X,4HA201,2X,F4.C,2X,4HA225,2X,F4.0,2X,
     2  4HA147,2X,F4.0,2X,4HA146,2X,F4.0)
C
    4 IF(NB.GE.NP30(NY)) GO TO 90
      NB = NB + 1
      GO TO 76
C
   90 IF(NY.GE. NYRS) GO TO 10C
      NY = NY + 1
      GO TO 20
C
  1C0 RETURN
      END
      SUBROUTINE FACIL(NYRS,NP30,NPP35,P94,P95,P103,P99,P102,P98,P101,
     1                P104,P105,P106,P107,P232,P233,IC)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      COMMON/SIX/A119(2,15),A120(2,15),A124(2,15),A125(2,15)
      DIMENSION NP30(20),NPP35(20,15),P94(20,15,3),P95(20,15,3),
     1          P103(20,15),P99(20,15),P102(20,15),P98(20,15),
     2          P101(20,15),P104(20,15),P105(20,15),P106(20,15),
     3          P107(20,15),P232(20,15),P233(20,15)
C
C  COMPUTE FACILITIES FOR EACH YEAR AND BASE
C
      IF(IC.EQ.0) GO TO 2
      WRITE(6,1)
    1 FORMAT(1H1)
C
    2 DO 5 I = 1,20
      DO 5 J = 1,15
      P99(I,J) = 0.
    5 P102(I,J) = 0.
C
      NY = 1
C
C  READ T(1626) - T(1901) FOR YEAR NY.
C
   10 CALL INPUT(NY,6)
C
      NB = 1
C
   14 P97 = 0.
   15 NP = 1
C
C  SIMULATOR AREA REQUIRED
C
   16 P97 = P97 + (P94(NY,NB,NP)+P95(NY,NB,NP))*T(NP+1625)
      IF(NP.GE.NA7(NY)) GO TO 20
      NP = NP + 1
      GO TO 16
C
C  CHECK IF BASE NB IS NEW IN YEAR NY
C
   20 IF(NPP35(NY,NB).NE.0) GO TO 25
      IF(NY.GT.1) GO TO 30
C
C  SIMULATOR AREA AVAILABLE BEFORE MODEL ADDITION
C
   25 P98(NY,NB) = T(NB+1628) + A119(2,NB) - A120(2,NB)
C
C  SIMULATOR AREA AVAILABLE BEGINNING OF YEAR
C
      P232(NY,NB) = T(NB+1628)
      GO TO 35
C
   30 P98(NY,NB) = P98(NY-1,NB) + A119(2,NB) - A120(2,NB)+P99(NY-1,NB)
      P232(NY,NB) = P232(NY-1,NB)+A119(1,NB) - A120(1,NB) + P99(NY-1,NB)
C
   35 IF(P98(NY,NB).GE.P97) GO TO 50
```

```
      IF((P97 - P98(NY,NB)).LT.T(1674)) GO TO 50
C
C   SIMULATOR AREA ADDED BY MODEL
C
      P99(NY,NB) = P97 - P98(NY,NB)
      GO TO 55
C
   50 P99(NY,NB) = 0.
C
C   CLASSROOM AREA REQUIRED
C
   55 P100 = T(1675)*P103(NY,NB)
C
C   CHECK IF BASE NB IS NEW IN YEAR NY
C
      IF(NPP35(NY,NB).NE.0) GO TO 60
      IF(NY.GT.1) GO TO 65
C
C   CLASSROOM AREA AVAILABLE BEFORE MODEL ADDITION
C
   60 P101(NY,NB) = T(NB+1675) + A124(2,NB) - A125(2,NB)
C
C   CLASSROOM AREA AVAILABLE BEGINNING OF YEAR
C
      P233(NY,NB) = T(NB+1675)
      GO TO 70
C
   65 P101(NY,NB) = P101(NY-1,NB) + A124(2,NB)-A125(2,NB)+P102(NY-1,NB)
      P233(NY,NB) = P233(NY-1,NB)+A124(1,NB)-A125(1,NB)+P102(NY-1,NB)
C
   70 IF(P101(NY,NB).GE.P100) GO TO 75
      IF((P100 - P101(NY,NB)).LT.T(1721)) GO TO 75
C
C   CLASSROOM AREA ADDED BY MODEL
C
      P102(NY,NB) = P100 - P101(NY,NB)
      GO TO 80
C
   75 P102(NY,NB) = 0.
C
C   CHECK IF BASE NB IS NEW IN YEAR NY.
C
   80  IF(NPP35(NY,NB).NE.0) GO TO 85
      IF(NY.GT.1) GO TO 90
C
C   SQ. FT. OF FLY. TRAIN. BASIC BLDG.
C
   85 P104(NY,NB) = T(NB+1721) + T(NB+1736) - T(NB+1751)
C
C   AIRMEN DORMITORIES
C
      P105(NY,NB) = T(NB+1766) + T(NB+1781) - T(NB+1796)
C
C   BACHELOR OFFICER QUARTERS
C
      P106(NY,NB) = T(NB+1811) + T(NB+1826) - T(NB+1841)
C
C   FAMILY HOUSING UNITS
C
```

```
      P107(NY,NB) = T(NB+1856) + T(NB+1871) - T(NB+1886)
      GO TO 100
C
   90 P104(NY,NB) = P104(NY-1,NB) + T(NB+1736) - T(NB+1751)
      P105(NY,NB) = P105(NY-1,NB) + T(NB+1781) - T(NB+1796)
      P106(NY,NB) = P106(NY-1,NB) + T(NB+1826) - T(NB+1841)
      P107(NY,NB) = P107(NY-1,NB) + T(NB+1871) - T(NB+1886)
C
C
  100 IF(IC.EQ.0) GO TO 101
      WRITE(6,150) NY,NB,P97,A119(2,NB),A120(2,NB),P98(NY,NB),
     1              P232(NY,NB),P99(NY,NB),P100,A124(2,NB),A125(2,NB),
     2              P101(NY,NB),P233(NY,NB),P102(NY,NB)
  150 FORMAT(3HONY,2X,I2,2X,2HNB,2X,I2,2X,3HP97,2X,F8.2,2X,4HA119,2X,
     1       F8.2,2X,4HA120,2X,F8.2,2X,3HP98,2X,F8.2,2X,4HP232,2X,F8.2,
     2       2X,3HP99,2X,F8.2/17X,4HP100,2X,F8.2,2X,4HA124,2X,F8.2,2X,
     3       4HA125,2X,F8.2,2X,4HP101,2X,F8.2,2X,4HP233,2X,F8.2,2X,
     4       4HP102,2X,F8.2)
C
      S1 = T(NB+1721)
      S2 = T(NB+1736)
      S3 = T(NB+1751)
      S4 = T(NB+1766)
      S5 = T(NB+1781)
      S6 = T(NB+1796)
      S7 = T(NB+1811)
      S8 = T(NB+1826)
      S9 = T(NB+1841)
      S10 = T(NB+1856)
      S11 = T(NB+1871)
      S12 = T(NB+1886)
      WRITE(6,151) S1,S2,S3,P104(NY,NB),S4,S5,S6,P105(NY,NB),
     1              S7,S8,S9,P106(NY,NB),S10,S11,S12,P107(NY,NB),
     2              NPP35(NY,NB)
  151 FORMAT(1H ,16X,4HA127,2X,F6.0,2X,4HA128,2X,F6.0,2X,4HA129,2X,F6.0,
     1       2X,4HP104,2X,F6.0/17X,4HA130,2X,F6.0,2X,4HA131,2X,F6.0,2X,
     2       4HA132,2X,F6.0,2X,4HP105,2X,F6.0/17X,4HA133,2X,F6.0,2X,
     3       4HA134,2X,F6.0,2X,4HA135,2X,F6.0,2X,4HP106,2X,F6.0/17X,
     4       4HA136,2X,F6.0,2X,4HA137,2X,F6.0,2X,4HA138,2X,F6.0,2X,
     5       4HP107,2X,F6.0/ 17X,5HNPP35,2X,I2/)
C
  101 IF(NB.GE.NP30(NY)) GO TO 105
      NB = NB + 1
      GO TO 14
C
  105 IF(NY.GE.NYRS) RETURN
      NY = NY + 1
C
C  SAVE THE PRECEDING YEAR'S VALUES FOR A119,A120,A124,A125 IN THE
C      ARRAYS WITH FIRST INDEX OF 1.
C
      DO 110 I = 1,15
      A119(1,I) = A119(2,I)
      A120(1,I) = A120(2,I)
      A124(1,I) = A124(2,I)
  110 A125(1,I) = A125(2,I)
C
      GO TO 10
C
```

```
      END
      SUBROUTINE INVCE(NY,P91,P92,P95,P108,P109,P110,P115,P116,P340,
     1                 P236,P237,P257,P279,P280,P168,NP30,IC)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1           A113(20,3),A10(20)
      COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
      COMMON/FIVEA/NA250(20,3), NA251(20,3)
      DIMENSION NP30(20),P91(20,3),P92(20,3),P95(20,15,3),P108(20,3),
     1          P109(20,3),P110(20,3),P115(20),P116(20),P340(20,3),
     2          P236(20,15),P237(20,15),P257(20,15,3),P279(20,3),
     3          P280(20,3),P168(20,3)
C
      IF(IC.EQ.0) GO TO 500
      WRITE(6,1000)
 1000 FORMAT(1H1)
  500 DO 1 I = 1,3
      P108(NY,I) = 0.
      P109(NY,I) = 0.
      P110(NY,I) = 0.
      P168(NY,I) = 0.
      P279(NY,I) = 0.
      P280(NY,I) = 0.
    1 P340(NY,I) = 0.
      DO 3 I = 1,15
      P236(NY,I) = 0.
      P237(NY,I) = 0.
      DO 2 J = 1,3
    2 P257(NY,I,J) = 0.
    3 CONTINUE
C
      NP = 1
C
C  CHECK IR THERE IS A NEW A/C TYPE IN PHASE NP
C
   10 IF(NA250(NY,NP).EQ.1) GO TO 11
      IF(NY.NE.1) GO TO 12
C
C  CUMULATIVE A/C PROCURED THRU LAST YEAR
C
   11 P168(NY,NP) = T(NP+1910)
      GO TO 15
   12 P168(NY,NP) = P168(NY-1,NP) + P92(NY-1,NP) + A111(NY-1,NP)
C
   15 A = (ALOG(T(NP+1907))/ALOG(2.)) + 1.
      B = (P168(NY,NP) + P92(NY,NP) + A111(NY,NP))**A
C
C  AIRCRAFT INVESTMENT COST
C
      P108(NY,NP) = T(NP+1904)*1000.*(B - P168(NY,NP)**A)
C
C  RECURRING MODIFICATIONS COST
C
      A = A-1.
      B =P168(NY,NP) + P92(NY,NP) + A111(NY,NP)
      IF(B.EQ.0.) GO TO 17
      IF(A.EC.0.) GC TO 16
      P34C(NY,NP)=T(NP+1927)*T(NP+1904)*1000.*(P91(NY,NP)+P92(NY,NP))*
     1            B**A
      GC TC 17
   16 P340(NY,NP) = T(NP+1927)*T(NP+1904)*1000.*(P91(NY,NP)+P92(NY,NP))
C
C  AIRCRAFT SPARES INVESTMENT COST
C
   17 P1C9(NY,NP) = T(NP+1913)*P108(NY,NP)
C
C  AIRCRAFT AGE INVESTMENT COST
C
      P110(NY,NP) = T(NP+1916)*P108(NY,NP)
C
      IF(IC.EC.0) GC TO 20
      WRITE(6,10C) NY,NP,P168(NY,NP),P108(NY,NP),P340(NY,NP),
     1             P109(NY,NP),P11C(NY,NP)
  100 FCRMAT(3H NY,2X,I2,2X,2HNP,2X,I2,2X,4HP168,2X,F1C.0,2X,4HP108,2X,
     1      F9.C,2X,4HP340,2X,F9.0,2X,4HP109,2X,F9.0,2X,4HP110,2X,F9.0)
C
   20 IF(NP.GE.NA7(NY)) GO TO 25
      NP = NP + 1
      GO TO 10
C
C  RESCUE ANC RECOVERY AIRCRAFT INVESTMENT COST
C
   25 P115(NY) = 0.
C
C  SUPPCRT AIRCRAFT INVESTMENT CCST
C
      P116(NY) = 0.
C
      NB = 1
C
   30 P115(NY) = T(1920)*1000.*A146(NY,NB) + P115(NY)
      P116(NY) = T(1921)*10C0.*A147(NY,NB) + P116(NY)
      IF(NB.GE.NP30(NY)) GO TO 35
      NB = NB + 1
      GC TC 30
C
C
   35 IF(IC.FQ.0) GC TC 40
      WRITE(6,1C1) NY,P115(NY),P116(NY)
  101 FORMAT(3HONY,2X,I2,10X,4HP115,2X,F9.C,2X,4HP116,2X,F9.C/)
C
   40 NP = 1
   45 NB = 1
C
C  SIMULATCR INVESTMENT COST
C
   50 P170 = (P95(NY,NB,NP) + A116(NY,NB,NP))*T(NP+1921)*1C00.
C
C  SIMULATOR SPARES INVESTMENT COST
C
      P112 = P170*T(NP+1924)
C
C  SIMULATOR  COST BY BASE
```

```
C
      P236(NY,NB) = P236(NY,NB) + P170
C
C  SIMULATOR SPARES COST BY BASE
C
      P237(NY,NB) = P237(NY,NB) + P112
C
C  TOTAL COSTS BY PHASE
C
      P257(NY,NB,NP) = P257(NY,NB,NP) + P170 + P112
C
C  SIMULATOR COST BY PHASE
C
      P279(NY,NP) = P279(NY,NP) + P170
C
C  SIMULATOR SPARES COST BY PHASE
C
      P280(NY,NP) = P280(NY,NP) + P112
C
C
      IF(IC.EQ.0) GO TO 60
      WRITE(6,102) NY,NB,NP,P170,P112,P236(NY,NB),P237(NY,NB),
     1              P257(NY,NB,NP),P279(NY,NP),P280(NY,NP)
  102 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,4HP170,2X,F9.0,
     1       2X,4HP112,2X,F9.0,2X,4HP236,2X,E13.6,2X,4HP237,2X,E13.6/
     2      25X,4HP257,2X,E13.6,2X,4HP279,2X,E13.6,2X,4HP280,2X,E13.6)
C
   60 IF(NB.GE.NP30(NY))GO TO 65
      NB = NB + 1
      GO TO 50
C
   65 IF(NP.GE.NA7(NY)) RETURN
      NP = NP + 1
      GO TO 45
C
      END




      SUBROUTINE INVCM(NY,NP30,NPP35,P33,P50,P51,P53,P54,P238,P239,
     1                 P241,P242,P243,P257,P259,P281,P282,P284,P285,
     2                 P286,PP300,P307,P308,P309,P344,P345,P346,IC)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1           A113(20,3),A10(20)
      DIMENSION NP30(20),NPP35(20,15),P33(20,15,3),P50(20,15,3),
     1          P51(20,15,3),P53(20,15),P54(20,15),P238(20,15),
     2          P239(20,15),P241(20,15),P242(20,15),P243(20,15),
     3          P257(20,15,3),P259(20,15),P281(20,3),P282(20,3),
     4          P284(20,3),P285(20,3),P286(20,3),PP300(20),P307(20),
     5          P308(20),P309(20),P344(15,3),P345(15,3),P346(15)
C
C  COMPUTE INVESTMENT COST FOR MANPOWER FOR YEAR NY.
C
      IF(IC.EQ.0) GO TO 600
      WRITE(6,1000)
 1000 FORMAT(1H1)
```

```
C
  600 DO 1001 I = 1,15
      P238(NY,I) = 0.
      P239(NY,I) = 0.
      P241(NY,I) = 0.
      P242(NY,I) = 0.
      P243(NY,I) = 0.
 1001 P259(NY,I) = 0.
      DO 1002 I = 1,3
      P281(NY,I) = 0.
      P282(NY,I) = 0.
      P284(NY,I) = 0.
      P285(NY,I) = 0.
 1002 P286(NY,I) = 0.
      PP300(NY) = 0.
      P307(NY) = 0.
      P308(NY) = 0.
      P309(NY) = 0.
      IF(NY.NE.1) GO TO 1003
      DO 1004 I = 1,15
      DO 1005 J = 1,3
      P344(I,J) = 0.
 1005 P345(I,J) = 0.
 1004 P346(I) = 0.
C
 1003 NB = 1
    1 NP = 1
    2 IJ = 3*(NB-1)+NP
      P118 = 0.
      P119 = 0.
      P122 = 0.
C  CHECK IF BASE NB IS NEW IN YEAR NY.
C
      IF(NPP35(NY,NB).NE.0) GO TO 5
      IF(NY.GT.1) GO TO 10
C
    5 P344(NB,NP) = T(IJ+1938) + T(IJ+1983) + T(IJ+2058)
   10 A = P33(NY,NB,NP)+P50(NY,NB,NP)+P51(NY,NB,NP)
    4 IF(A.LT.P344(NB,NP)) GO TO 15
C
C  INCREASE IN MILITARY BY PHASE
C
      P118 = A - P344(NB,NP)
      P344(NB,NP) = P344(NB,NP) + P118
C
C  BASE SUPPORT EQUIP. INVEST. COST
C
    6 P113 = P118*T(1937)
C
C  STOCKS INVEST. COST BY PHASE
C
      P117 = P118*T(2104)
      GO TO 20
C
   15 P113 = 0.
      P117 = 0.
C
C  BASE SUPPORT EQUIP. COST BY BASE
C
```

```
   20 P239(NY,NB) = P239(NY,NB) + P113
C
C  STOCKS COST BY BASE
C
      P241(NY,NB) = P241(NY,NB) + P117
C
C  BASE SUPPORT EQUIP. COST BY PHASE
C
      P282(NY,NP) = P282(NY,NP) + P113
C
C  STOCKS COST BY PHASE
C
      P284(NY,NP) = P284(NY,NP) + P117
C
      IF(NPP35(NY,NB).NE.0) GO TO 25
      IF(NY.GT.1) GO TO 30
C
   25 P345(NB,NP) = T(IJ+2058)
   30 IF(P33(NY,NB,NP).LT.P345(NB,NP)) GO TO 34
C
C  TRAINING EQUIP. INVEST. COST
C
      P114 = T(1938)*(P33(NY,NB,NP) - P345(NB,NP))
      P345(NB,NP) = P33(NY,NB,NP)
      GO TO 35
C
   34 P114 = 0.
C
C  TRAINING EQUIP. COST BY BASE
C
   35 P238(NY,NB) = P238(NY,NB) + P114
C
C  TRAINING EQUIP. COST BY PHASE
C
      P281(NY,NP) = P281(NY,NP) + P114
C
      IF(NPP35(NY,NB).NE.0) GO TO 40
      IF(NY.GT.1) GO TO 45
C
   40 C = P50(NY,NB,NP) - T(IJ+1938)
   41 IF(C.LT.0.) GO TO 50
C
C  INCREASE IN OFFICERS
C
      P119 = C
C
C  TRAINING INVEST. COST FOR OFFICERS
C
      P120 = P119*T(2105)
C
C  TRAVEL INVEST. COST FOR OFFICERS
C
      P121 = P119*T(2106)
      GO TO 55
C
   45 C = P50(NY,NB,NP) - P50(NY-1,NB,NP)
      GO TO 41
C
   50 P120 = 0.
```

```
      P121 = 0.
C
   55 IF(NPP35(NY,NB).NE.0) GO TO 60
      IF(NY.GT.1) GO TO 65
C
   60 D = P51(NY,NB,NP) - T(IJ+1983)
   61 IF(D.LT.0.) GO TO 70
C
C  INCREASE IN AIRMEN
C
      P122 = D
C
C  TRAINING INVESTMENT COST FOR AIRMEN
C
      P123 = P122*T(2107)
C
C  TRAVEL INVEST. COST FOR AIRMEN
C
      P124 = P122*T(2108)
      GO TO 75
C
   65 D = P51(NY,NB,NP) - P51(NY-1,NB,NP)
      GO TO 61
C
   70 P123 = 0.
      P124 = 0.
C
C  TRAINING COST BY BASE
C
   75 P242(NY,NB) = P242(NY,NB) + P120 + P123
C
C  TRAINING COST BY PHASE
C
      P285(NY,NP) = P285(NY,NP) + P120 + P123
C
C  TRAVEL COST BY BASE
C
      P243(NY,NB) = P243(NY,NB) + P121 + P124
C
C  TRAVEL COST BY PHASE
C
      P286(NY,NP) = P286(NY,NP) + P121 + P124
C
C  TOTAL COSTS BY PHASE
C
      P257(NY,NB,NP) = P257(NY,NB,NP)+ P113+P117+P114+P123+P124
     1      + P120 + P121
C
C
      IF(IC.EQ.0) GO TO 601
      WRITE(6,500) NY,NB,NP,P344(NB,NP),P118,P113,P117,P345(NB,NP),
     1              P114,P119,P120,P121,P122,P123,P124
  500 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,4HP344,2X,F8.0,
     2        2X,4HP118,2X,F8.0,2X,4HP113,2X,F8.0,2X,4HP117,2X,F8.0,2X,
     3        4HP345,2X,F8.0,2X,4HP114,2X,F8.0/25X,
     4        4HP119,2X,F8.0, 2X,4HP120,2X,F8.0,2X,4HP121,2X,F8.0,2X,
     5        4HP122,2X,F8.0,2X,4HP123,2X,F8.0,2X,4HP124,2X,F8.0)
      WRITE(6,501) P239(NY,NB),P241(NY,NB),P282(NY,NP),P284(NY,NP),
     1              P238(NY,NB),P281(NY,NP),P242(NY,NB),P285(NY,NP),
     2             P243(NY,NB),P286(NY,NP),P257(NY,NB,NP)
   501 FORMAT(1H ,24X,4HP239,2X,E13.6,2X,4HP241,2X,E13.6,2X,4HP282,2X,
     1       E13.6,2X,4HP284,2X,E13.6/25X,4HP238,2X,E13.6,2X,4HP281,2X,
     2       E13.6,2X,4HP242,2X,E13.6,2X,4HP285,2X,E13.6/25X,4HP243,2X,
     3       E13.6,2X,4HP286,2X,E13.6,2X,4HP257,2X,E13.6)
C
   601 IF(NP.GE.NA7(NY)) GO TO 80
       NP = NP + 1
       GO TO 2
C
    80 P125 = 0.
       P128 = 0.
       P129 = 0.
       IF(NPP35(NY,NB).NE.0) GO TO 85
       IF(NY.GT.1) GO TO 90
C
    85 P346(NB) = T(NB+2028) + T(NB+2043)
    90 E = P53(NY,NB) + P54(NY,NB)
       IF(E.LT.P346(NB)) GO TO 95
C
C   INCREASE IN MILITARY - NC PHASE
C
       P125 = E - P346(NB)
       P346(NB) = P346(NB) + P125
C
C   BASE SUPT. EQUIP. INVESTMENT COST - NO PHASE
C
       P126 = P125*T(1937)
C
C   STOCKS INVEST. COST - NC PHASE
C
       P127 = P125*T(2104)
       GC TO 100
C
    95 P126 = 0.
       P127 = 0.
C
C   BASE SUPPORT EQUIP. COST BY BASE
C
   100 P239(NY,NB) = P239(NY,NB) + P126
C
C   BASE SUPPORT EQUIP. COST NOT ASSIGNED TO PHASE
C
       PP300(NY) = PP300(NY) + P126
C
C   STCCKS COST BY BASE
C
       P241(NY,NB) = P241(NY,NB) + P127
C
C   STOCKS COST NCT ASSIGNEC TO PHASE
C
       P307(NY) = P307(NY) + P127
C
       IF(NPP35(NY,NB).NE.0) GO TC 105
       IF(NY.GT.1) GO TO 110
C
C   INCREASE IN CFFICERS - NC PHASE
C
   105 F = P53(NY,NB) - T(NB+2028)
```

```
  106 IF(F.LT.0.) GO TO 115
C
      P128 = F
C
C  TRAINING INVEST. COST FOR OFFICERS - NO PHASE
C
      P130 = P128*T(2105)
C
C  TRAVEL INVEST. COST FOR OFFICERS - NO PHASE
C
      P131 = P128*T(2106)
      GO TO 120
C
  110 F = P53(NY,NB) - P53(NY-1,NB)
      GO TO 106
C
  115 P130 = 0.
      P131 = 0.
C
  120 IF(NPP35(NY,NB).NE.0) GO TO 125
      IF(NY.GT.1) GO TO 130
C
  125 G = P54(NY,NB) - T(NB+2043)
  126 IF(G.LT.0.) GO TO 135
C
C  INCREASE IN AIRMEN - NO PHASE
C
      P129 = G
C
C  TRAIN. INVEST. COST FOR AIRMEN - NO PHASE
C
      P132 = P129*T(2107)
C
C  TRAVEL INVEST. COST FOR AIRMEN - NO PHASE
C
      P133 = P129*T(2108)
      GO TO 140
C
  130 G = P54(NY,NB) - P54(NY-1,NB)
      GO TO 126
C
  135 P132 = 0.
      P133 = 0.
C
C  TRAINING COST BY BASE
C
  140 P242(NY,NB) = P242(NY,NB) + P130 + P132
C
C  TRAINING COST NOT ASSIGNED TO PHASE
C
      P308(NY) = P308(NY) + P130 + P132
C
C  TRAVEL COST BY BASE
C
      P243(NY,NB) = P243(NY,NB) + P131 + P133
C
C  TRAVEL COST NOT ASSIGNED TO PHASE
C
      P309(NY) = P309(NY) + P131 + P133
```

```
C
C  TOTAL COSTS NOT ASSIGNED TO PHASE
C
      P259(NY,NB) = P259(NY,NB)+P126+P127+ P130+P131+P132+P133
C
C
      IF(IC.EQ.0) GO TO 602
      WRITE(6,502) NY,NB,P346(NB),P125,P126,P127,P128,P130,P131,
     2             P129,P132,P133
  502 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,4HP346,2X,F8.0,2X,4HP125,2X,
     1       F8.0,2X,4HP126,2X,F8.0,2X,4HP127,2X,F8.0,2X,4HP128,2X,
     2       F8.0,2X,4HP130,2X,F8.0/
     3       17X,4HP131,2X,F8.0,2X,4HP129,2X,F8.0,2X,4HP132,2X,F8.0,2X,
     4       4HP133,2X,F8.0)
      WRITE(6,503) P239(NY,NB),PP300(NY),P241(NY,NB),P307(NY),
     1             P242(NY,NB),P308(NY),P243(NY,NB),P309(NY),P259(NY,NB)
  503 FORMAT(1H ,16X,4HP239,2X,E13.6,2X,5HPP300,2X,E13.6,2X,4HP241,2X,
     1      E13.6,2X,4HP307,2X,E13.6,2X,4HP242,2X,E13.6/ 17X,
     2      4HP308,2X,E13.6,2X,4HP243,2X,E13.6,2X,4HP309,2X,E13.6,2X,
     3      4HP259,2X,E13.6)
C
  602 IF(NB.GE.NP30(NY)) RETURN
      NB = NB + 1
      GO TO 1
C
      END




      SUBROUTINE OPERC(NY,NP30,P10,P33,P50,P51,P52,P53,P54,P55,P60,P94,
     1                 P95,P193,P167,P234,P260,P261,P244,P245,P246,P247,
     2            P248,P249,P250,P251,P252,P253,P254,P255,P256,P257,
     3                 P259,P287,P288,P289,P290,P291,P292,P293,P294,
     4                 P295,P296,P297,P298,P299,P304,P305,P306,P310,
     5                 P311,P312,P313,P314,P315,P316,P317,P318,
     6                 P103,P25,IC)
      DIMENSION NP30(NY),P10(20),P33(20,15,3),P50(20,15,3),P51(20,15,3),
     1          P52(20,15,3),P53(20,15),P54(20,15),P55(20,15),
     2          P60(20,15,3),P94(20,15,3),P95(20,15,3),P193(20,3),
     3          P167(20,15),P234(20,15),P260(20,15),P261(20,15),
     4          P244(20,15),P245(20,15),P246(20,15),P247(20,15),
     5          P248(20,15),P249(20,15),P250(20,15),P251(20,15),
     6          P252(20,15),P253(20,15),P254(20,15),P255(20,15),
     7          P256(20,15),P257(20,15,3),P259(20,15),P287(20,3),
     8          P288(20,3),P289(20,3),P290(20,3),P291(20,3),P292(20,3),
     9          P293(20,3),P294(20,3),P295(20,3),P296(20,3),P297(20,3),
     A          P298(20,3),P299(20,3),P304(20),P305(20),P306(20),
     B          P310(20),P311(20),P312(20),P313(20),P314(20),P315(20),
     C          P316(20),P317(20),P318(20),P103(20,15),P25(22)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1           A113(20,3),A10(20)
      COMMON/THREE/A17(15,3),A18(20,15,3),NA15(20,3)
      COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
C
C  COMPUTE OPERATING COST FOR YEAR NY.
C
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```
      IF(IC.EQ.0) GO TO 500
      WRITE(6,1000)
 1000 FORMAT(1H1)
  500 NB = 1
    1 NP = 1
C
C  OFFICERS PAY AND ALLOWANCES BY PHASE
C
    2 P138 = T(2361)*(P50(NY,NB,NP) + P33(NY,NB,NP))
C
C  OFFICERS PAY AND ALLOWANCE COST BY BASE
C
      P251(NY,NB) = P251(NY,NB) + P138
C
C  OFFICERS PAY AND ALLOWANCE BY PHASE
C
      P294(NY,NP) = P294(NY,NP) + P138
C
C  AIRMEN PAY AND ALLOWANCE BY PHASE
C
      P139 = T(2362)*P51(NY,NB,NP)
C
C  AIRMEN PAY AND ALLOWANCE COST BY BASE
C
      P252(NY,NB) = P252(NY,NB) + P139
C
C  AIRMEN PAY AND ALLOWANCE COST BY PHASE
C
      P295(NY,NP) = P295(NY,NP) + P139
C
C  CIVILIAN PAY BY PHASE
C
      P140 = T(2363)*P52(NY,NB,NP)
C
C  CIVILIAN PAY COST BY BASE
C
      P253(NY,NB) = P253(NY,NB) + P140
C
C  CIVILIAN PAY COST BY PHASE
C
      P296(NY,NP) = P296(NY,NP) + P140
C
C  ANNUAL TRAINING COST FOR OFFICERS BY PHASE
C
      P141 = T(2105)*T(2364)*P50(NY,NB,NP)
C
C  ANNUAL TRAVEL COST FOR OFFICERS BY PHASE
C
      P142 = T(2106)*T(2364)*P50(NY,NB,NP)
C
C  ANNUAL TRAINING COST FOR AIRMEN BY PHASE
C
      P143 = T(2107)*T(2365)*P51(NY,NB,NP)
C
C  ANNUAL TRAVEL COST FOR AIRMEN BY PHASE
C
      P144 = T(2108)*T(2365)*P51(NY,NB,NP)
C
C  TRAINING COST BY BASE
```

```
C
      P254(NY,NB) = P254(NY,NB) + P141 + P143
C
C  TRAVEL COST BY BASE
C
      P255(NY,NB) = P255(NY,NB) + P142 + P144
C
C  TRAINING COST BY PHASE
C
      P297(NY,NP) = P297(NY,NP) + P141 + P143
C
C  TRAVEL COST BY PHASE
C
      P298(NY,NP) = P298(NY,NP) + P142 + P144
C
C  FACIL. O AND M COST BY PHASE
C
      P146 = T(2381)*(P50(NY,NB,NP) + P51(NY,NB,NP) +P33(NY,NB,NP))
C
C  FACIL. MAINT. COST BY BASE
C
      P249(NY,NB) = P249(NY,NB) + P146
C
C  FACIL. MAINT. COST BY PHASE
C
      P292(NY,NP) = P292(NY,NP) + P146
C
C  SUPPLIES AND SERVICES COST BY PHASE
C
      P147 = T(NB+2516)*(P50(NY,NB,NP) + P51(NY,NB,NP)  + P33(NY,NB,NP))
C
C  SUPPLIES AND SERVICES COST BY BASE
C
      P256(NY,NB) = P256(NY,NB) + P147
C
C  SUPPLIES AND SERVICES COST BY PHASE
C
      P299(NY,NP) = P299(NY,NP) + P147
C
C  TOTAL COSTS BY PHASE
C
      P257(NY,NB,NP) = P257(NY,NB,NP) + P138 + P139 + P140 + P141 +
     1  P142 + P143 + P144 + P146 + P147
C
C
      IF(IC.EQ.0) GO TO 501
      WRITE(6,100) NY,NB,NP,P138,P139,P140,P141,P142,P143,P144,P146,P147
  100 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,4HP138,2X,F8.0,
     1       2X,4HP139,2X,F8.0,2X,4HP140,2X,F8.0,2X,4HP141,2X,F8.0,2X,
     2       4HP142,2X,F8.0/25X,4HP143,2X,F8.0,2X,4HP144,2X,F8.0,2X,
     3       4HP146,2X,F8.0,2X,4HP147,2X,F8.0)
      WRITE(6,110) P251(NY,NB),P294(NY,NP),P252(NY,NB),P295(NY,NP),
     1             P253(NY,NB),P296(NY,NP),P254(NY,NB),P297(NY,NP),
     2             P255(NY,NB),P298(NY,NP),P249(NY,NB),P292(NY,NP),
     3             P256(NY,NB),P299(NY,NP),P257(NY,NB,NP)
  110 FORMAT(1H ,24X,4HP251,2X,E13.6,2X,4HP294,2X,E13.6,2X,4HP252,2X,
     1      E13.6,2X,4HP295,2X,E13.6,2X,4HP253,2X,E13.6/25X,4HP296,2X,
     2      E13.6,2X,4HP254,2X,E13.6,2X,4HP297,2X,E13.6,2X,4HP255,2X,
     3      E13.6,2X,4HP298,2X,E13.6/25X,4HP249,2X,E13.6,2X,4HP292,2X,
     4      E13.6,2X,4HP256,2X,E13.6,2X,4HP299,2X,E13.6,2X,4HP257,2X,
     5      E13.6)
C
  501 IF(NP.GE.NA7(NY)) GO TO 5
      NP = NP + 1
      GO TO 2
C
C  OFFICER PAY AND ALLOWANCES - NO PHASE
C
    5 P148 = T(2361)*P53(NY,NB)
      P251(NY,NB) = P251(NY,NB) + P148
C
C  OFFICERS PAY AND ALLOWANCES COST NOT ASSIGNABLE TO PHASE
C
      P313(NY) = P313(NY) + P148
C
C  AIRMEN PAY AND ALLOWANCES - NO PHASE
C
      P149 = T(2362)*P54(NY,NB)
      P252(NY,NB) = P252(NY,NB) + P149
C
C  AIRMEN PAY AND ALLOWANCES COST NOT ASSIGNABLE TO PHASE
C
      P314(NY) = P314(NY) + P149
C
C  CIVILIAN PAY - NO PHASE
C
      P150 = T(2363)*P55(NY,NB)
      P253(NY,NB) = P253(NY,NB) + P150
C
C  CIVILIAN PAY COST NOT ASSIGNABLE BY PHASE
C
      P315(NY) = P315(NY) + P150
C
C  ANNUAL TRAINING COST FOR OFFICERS - NO PHASE
C
      P151 = T(2105)*T(2364)*P53(NY,NB)
C
C  ANNUAL TRAVEL COST FOR OFFICERS - NO PHASE
C
      P152 = T(2106)*T(2364)*P54(NY,NB)
C
C  ANNUAL TRAVEL COST FOR STUDENTS - NO PHASE
C
      P153 = T(2106)*(P193(NY,1) + P10(NY))*(P103(NY,NB)/P25(NY))
C
C  ANNUAL TRAINING COST FOR AIRMEN - NO PHASE
C
      P154 = T(2107)*T(2365)*P54(NY,NB)
C
C  ANNUAL TRAVEL COST FOR AIRMEN - NO PHASE
C
      P155 = T(2108)*T(2365)*P54(NY,NB)
      P254(NY,NB) = P254(NY,NB) + P151 + P154
      P255(NY,NB) = P255(NY,NB) + P152 + P153 + P155
C
C  ANNUAL TRAINING COST  NOT ASSIGNABLE TO PHASE
C
      P316(NY) = P316(NY) + P151 + P154
```

```
C
C  ANNUAL TRAVEL COST NOT ASSIGNABLE TO PHASE
C
      P317(NY) = P317(NY) + P152 + P153 + P155
C
C
C  FACIL. O AND M COST - NO PHASE
C
      P156 = T(NB+2365)*1000. + T(2381)*(P53(NY,NB) + P54(NY,NB))
      P249(NY,NB) = P249(NY,NB) + P156
C
C  FACIL. O AND M COST NOT ASSIGNABLE TO PHASE
C
      P312(NY) = P312(NY) + P156
C
C  SUPPLIES AND SERVICES COST - NO PHASE
C
      P157 = T(NB+2516)*(P53(NY,NB) + P54(NY,NB))
      P256(NY,NB) = P256(NY,NB) + P157
C
C  SUPPLIES AND SERVICES COST NOT ASSIGNABLE TO PHASE
C
      P318(NY) = P318(NY) + P157
      P259(NY,NB) = P259(NY,NB) + P148 + P149 + P150 + P151 + P152 +
     1              P153 + P154 + P155 + P156 + P157
C
      IF(IC.EQ.0) GO TO 502
      WRITE(6,101) NY,NB,P148,P149,P150,P151,P152,P153,P154,P155,P156,
     1             P157
  101 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,4HP148,2X,F8.0,2X,4HP149,2X,
     1       F8.0,2X,4HP150,2X,F8.0,2X,4HP151,2X,F8.0,2X,4HP152,2X,F8.0/
     2       17X,4HP153,2X,F8.0,2X,4HP154,2X,F8.0,2X,4HP155,2X,F8.0,2X,
     3       4HP156,2X,F8.0,2X,4HP157,2X,F8.0)
      WRITE(6,111) P251(NY,NB),P313(NY),P252(NY,NB),P314(NY),
     1             P253(NY,NB),P315(NY),P254(NY,NB),P255(NY,NB),
     2             P316(NY),P317(NY),P249(NY,NB),P312(NY),P256(NY,NB),
     3             P318(NY),P259(NY,NB)
  111 FORMAT(1H ,16X,4HP251,2X,E13.6,2X,4HP313,2X,E13.6,2X,4HP252,2X,
     1      E13.6,2X,4HP314,2X,E13.6,2X,4HP253,2X,E13.8/17X,4HP315,2X,
     2      E13.6,2X,4HP254,2X,E13.6,2X,4HP255,2X,E13.6,2X,4HP316,2X,
     3      E13.6,2X,4HP317,2X,E13.6/17X,4HP249,2X,E13.6,2X,4HP312,2X,
     4      E13.6,2X,4HP256,2X,E13.6,2X,4HP318,2X,E13.6,2X,4HP259,2X,
     5      E13.6)
C
  502 NP = 1
   10 P158 = 0.
      IF(NA15(NY,NP).NE.1) GO TO 15
C
C  CONTRACT TRAINING COST
C
      IJ = 3*(NB-1) + NP
      P158 = T(IJ+2427)*P60(NY,NB,NP)
C
C  CONTRACTED FLY. TRAINING COST BY BASE
C
      P250(NY,NB) = P250(NY,NB) + P158
C
C  CONTRACT FLY. TRAINING COST BY PHASE
C
```

```
      P293(NY,NP) = P293(NY,NP) + P158
C
C  DEPOT MAINTENANCE COST
C
   15 P159 = T(NP+2472)*P60(NY,NB,NP)
C
C  DEPOT MAINTENANCE COST BY BASE
C
      P244(NY,NB) = P244(NY,NB) + P159
C
C  DEPOT MAINTENANCE COST BY PHASE
C
      P287(NY,NP) = P287(NY,NP) + P159
C
C  BASE MATERIAL COST
C
      P160 = T(NP+2475)*P60(NY,NB,NP)
C
C  BASE MATERIAL COST BY BASE
C
      P245(NY,NB) = P245(NY,NB) + P160
C
C  BASE MATERIAL COST BY PHASE
C
      P288(NY,NP) = P288(NY,NP) + P160
C
C  CONTRACT MAINTENANCE COST
C
      IJ = 3*(NB-1) + NP
      P198 = T(IJ+2381)*P60(NY,NB,NP)
C
C  CONTRACT MAINTENANCE COST BY BASE
C
      P246(NY,NB) = P246(NY,NB) + P198
C
C  CONTRACT MAINTENANCE COST BY PHASE
C
      P289(NY,NP) = P289(NY,NP) + P198
C
C  POL COST
C
      P161 = T(NP+2478)*P60(NY,NB,NP)
C
C  POL COST BY BASE
C
      P247(NY,NB) = P247(NY,NB) + P161
C
C  POL COST BY PHASE
C
      P290(NY,NP) = P290(NY,NP) + P161
C
C  SIMULATOR O AND M COST
C
      P162 = T(NP+2481)*(P94(NY,NB,NP) + P95(NY,NB,NP))
C
C  SIMULATOR O AND M COST BY BASE
C
      P248(NY,NB) = P248(NY,NB) + P162
C
```

```
C  SIMULATOR O AND M COST BY PHASE
C
      P291(NY,NP) = P291(NY,NP) + P162
      P257(NY,NB,NP)=P257(NY,NB,NP)+P158+P159+P160+P198+P161+P162
C
      IF(IC.EQ.0) GO TO 503
      WRITE(6,102) NY,NB,NP,P158,P159,P160,P198,P161,P162
  102 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,4HP158,2X,F8.0,
     1       2X,4HP159,2X,F8.0,2X,4HP160,2X,F8.0,2X,4HP198,2X,F8.0,2X,
     2       4HP161,2X,F8.0,2X,4HP162,2X,F8.0)
      WRITE(6,112) P250(NY,NB),P293(NY,NP),P244(NY,NB),P287(NY,NP),
     1             P245(NY,NB),P288(NY,NP),P246(NY,NB),P289(NY,NP),
     2             P247(NY,NB),P290(NY,NP),P248(NY,NB),P291(NY,NP),
     3             P257(NY,NB,NP)
  112 FORMAT(1H ,24X,4HP250,2X,E13.6,2X,4HP293,2X,E13.6,2X,4HP244,2X,
     1      E13.6,2X,4HP287,2X,E13.6,2X,4HP245,2X,E13.6/25X,4HP288,2X,
     2      E13.6,2X,4HP246,2X,E13.6,2X,4HP289,2X,E13.6,2X,4HP247,2X,
     3      E13.6,2X,4HP290,2X,E13.6/25X,4HP248,2X,E13.6,2X,4HP291,2X,
     4      E13.6,2X,4HP257,2X,E13.6)
C
  503 IF(NP.GE.NA7(NY)) GO TO 20
      NP = NP + 1
      GO TO 10
C
C  FLY. HRS./YEAR FOR SUPPORT A/C
C
   20 P166 = T(NB+2484)*P167(NY,NB)
C
C  FLY. HRS./YEAR FOR RESCUE AND RECOVERY A/C
C
      P262 = T(NB+2499)*P234(NY,NB)
C
C  O AND M COST - SUPPORT A/C
C
      P260(NY,NB) = T(2515)*P166
C
C  O AND M COST - R AND R A/C
C
      P261(NY,NB) = T(2516)*P262
C
C  O AND M COST - SUPPORT A/C - NOT ASSIGNABLE TO PHASE
C
      P310(NY) = P310(NY) + P260(NY,NB)
C
C  O AND M COST - R AND R A/C - NO ASSIGNABLE TO PHASE
C
      P311(NY) = P311(NY) + P261(NY,NB)
C
      P259(NY,NB) = P259(NY,NB) + P260(NY,NB) + P261(NY,NB) +
     1    1000.*(T(NB+2315)+T(NB+2330)+T(NB+2345)) + A178(NY,NB) +
     2    A179(NY,NB)
C
C  FLY. TRAINING BASIC BLDG. COST NOT ASSIGNABLE TO PHASE
C
      P304(NY) = P304(NY) + A179(NY,NB)
C
C  HOUSING COST NOT ASSIGNABLE TO PHASE
C
      P305(NY) = P305(NY) + 1000.*(T(NB+2315)+T(NB+2330)+T(NB+2345))
```

```
C
C  OTHER COSTS NOT ASSIGNABLE TO PHASE
C
      P306(NY) = P306(NY) + A178(NY,NB)
C
      IF(IC.EQ.0) GO TO 504
      WRITE(6,103) NY,NB,P166,P262,P260(NY,NB),P261(NY,NB)
  103 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,4HP166,2X,F8.0,2X,4HP262,2X,
     1       F8.0,2X,4HP260,2X,F8.0,2X,4HP261,2X,F8.0)
      WRITE(6,113) P310(NY),P311(NY),P259(NY,NB),P304(NY),P305(NY),
     1             P306(NY)
  113 FORMAT(1H ,16X,4HP310,2X,E13.6,2X,4HP311,2X,E13.6,2X,4HP259,2X,
     1       E13.6/17X,4HP304,2X,E13.6,2X,4HP305,2X,E13.6,2X,4HP306,2X,
     2       E13.6)
C
  504 IF(NB.GE.NP30(NY)) RETURN
      NB = NB + 1
      GO TO 1
C
      END




      SUBROUTINE INVCF(NY,NP30,NPP35,P36,P99,P102,P135,P136,P137,P240,
     1         P257,P259,P283,P301,P302,P303,IC)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1              A113(20,3),A10(20)
      COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
      DIMENSION NP30(20),NPP35(20,15),P36(20,15,3),P99(20,15),
     1              P102(20,15),P135(20,15),P136(20,15),P137(20,15),
     2              P240(20,15),P283(20,3),P301(20),P302(20),P303(20),
     3              P257(20,15,3),P259(20,15)
C
C  COMPUTE INVESTMENT COST FOR FACILITIES FOR YEAR NY.
C
      IF(IC.EQ.0) GO TO 500
      WRITE(6,1000)
 1000 FORMAT(1H1)
  500 DO 100 I = 1,15
      P135(NY,I) = 0.
      P136(NY,I) = 0.
      P240(NY,I) = 0.
  100 P137(NY,I) = 0.
      DO 101 I = 1,3
  101 P283(NY,I) = 0.
      P301(NY) = 0.
      P302(NY) = 0.
      P303(NY) = 0.
C
      NB = 1
    1 NP = 1
C
C  RUNWAY INVESTMENT COST
C
    2 IJ = 3*(NB-1) + NP
      P134 = P36(NY,NB,NP)*T(IJ+2173)*1000. + T(IJ+2128)*1000.
```

```
C
C  RUNWAYS COST BY BASE
C
      P240(NY,NB) = P240(NY,NB) + P134
C
C  TOTAL COST BY BASE AND PHASE
C
      P257(NY,NB,NP) = P257(NY,NB,NP) + P134
C
C  RUNWAYS COST BY PHASE
C
      P283(NY,NP) = P283(NY,NP) + P134
C
      IF(IC.EQ.0) GO TO 501
      WRITE(6,3) NY,NB,NP,P134,P240(NY,NB),P257(NY,NB,NP),P283(NY,NP)
    3 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,2HNP,2X,I2,2X,4HP134,2X,E13.6,
     1       2X,4HP240,2X,E13.6,2X,4HP257,2X,E13.6,2X,4HP283,2X,E13.6)
  501 IF(NP.GE.NA7(NY)) GO TO 5
      NP = NP + 1
      GO TO 2
C
C     ADDITIONAL UPT BASE INVESTMENT COST
C
    5 IF(NPP35(NY,NB).EQ.0) P135(NY,NB) = 0.
      IF(NPP35(NY,NB).EQ.1) P135(NY,NB) = T(NB+2233)*1000.
      IF(NPP35(NY,NB).EQ.2) P135(NY,NB) = T(NB+2218)*1000.
C
C  NEW BASE CONVERSION COST NOT ASSIGNABLE TO PHASE
C
      P301(NY) = P301(NY) + P135(NY,NB)
C
C     SIMULATOR AREA INVESTMENT COST
C
      A = T(2280)
      IF(P99(NY,NB).EQ.0.) GO TO 6
      IF(A.GT.0.) B = (P99(NY,NB)/T(2284))**A
      IF(A.EQ.0.) B = 1.
      IF(A.LT.0.) B = (T(2284)/P99(NY,NB))**(-A)
      P136(NY,NB) = T(NB+2263)*1000. + T(2282)*P99(NY,NB)*(T(2279)*
     1 B + T(2281))
      GO TO 7
    6 P136(NY,NB) = T(NB+2263)*1000.
C
C  CLASSROOM AREA INVESTMENT COST
C
    7 IF(P102(NY,NB).EQ.0.) GO TO 8
      IF(A.GT.0.) C = (P102(NY,NB)/T(2285))**A
      IF(A.EQ.0.) C = 1.
      IF(A.LT.0.) C = (T(2285)/P102(NY,NB))**(-A)
      P137(NY,NB) = T(NB+2248)*1000. + T(2283)*P102(NY,NB)*(T(2279)*
     1 C + T(2281))
      GO TO 9
    8 P137(NY,NB) = T(NB+2248)*1000.
C
C  SIMULATOR BLDG. COST NOT ASSIGNABLE TO PHASE
C
    9 P302(NY) = P302(NY) + P136(NY,NB)
C
C  CLASSROOM BLDG. COST NOT ASSIGNABLE TO PHASE
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```
C
      P303(NY) = P303(NY) + P137(NY,NB)
C
C  TOTAL COSTS NOT ASSIGNABLE TO PHASE
C
      P259(NY,NB) = P259(NY,NB) + P135(NY,NB) + P136(NY,NB) +P137(NY,NB)
C
      IF(IC.EQ.0) GO TO 502
      WRITE(6,10) NY,NB,P135(NY,NB),P136(NY,NB),P137(NY,NB),P301(NY),
     1             P302(NY),P303(NY),P259(NY,NB)
   10 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,4HP135,2X,E13.6,2X,4HP136,2X,
     1       E13.6,2X,4HP137,2X,E13.6,2X,4HP301,2X,E13.6/17X,4HP302,2X,
     2       E13.6,2X,4HP303,2X,E13.6,2X,4HP259,2X,E13.6)
C
  502 IF(NB.GE.NP30(NY)) RETURN
      NB = NB + 1
      GO TO 1
C
      END



      SUBROUTINE ZERO1(NY,P244,P245,P246,P247,P248,P249,P250,P251,
     1                 P252,P253,P254,P255,P256,P287,P288,P289,
     2                 P290,P291,P292,P293,P294,P295,P296,P297,
     3                 P298,P299,P304,P305,P306,P310,P311,P312,P313,
     4                 P314,P315,P316,P317,P318)
      DIMENSION P244(20,15),P245(20,15),P246(20,15),P247(20,15),
     1          P248(20,15),P249(20,15),P250(20,15),P251(20,15),
     2          P252(20,15),P253(20,15),P254(20,15),P255(20,15),
     3          P256(20,15),P287(20,3),P288(20,3),
     4          P289(20,3),P290(20,3),P291(20,3),P292(20,3),P293(20,3),
     5          P294(20,3),P295(20,3),P296(20,3),P297(20,3),P298(20,3),
     6          P299(20,3),P304(20),P305(20),P306(20),
     7          P310(20),P311(20),P312(20),P313(20),P314(20),P315(20),
     8          P316(20),P317(20),P318(20)
C
C  SET TO ZERO ACCUMULATING VARIABLES USED IN SUBROUTINE OPERC.
C
      I = NY
      DO 10 J = 1,15
      P244(I,J) = 0.
      P245(I,J) = 0.
      P246(I,J) = 0.
      P247(I,J) = 0.
      P248(I,J) = 0.
      P249(I,J) = 0.
      P250(I,J) = 0.
      P251(I,J) = 0.
      P252(I,J) = 0.
      P253(I,J) = 0.
      P254(I,J) = 0.
      P255(I,J) = 0.
      P256(I,J) = 0.
   10 CONTINUE
      DO 15 K = 1,3
      P287(I,K) = 0.
      P288(I,K) = 0.
      P289(I,K) = 0.
      P290(I,K) = 0.
      P291(I,K) = 0.
      P292(I,K) = 0.
      P293(I,K) = 0.
      P294(I,K) = 0.
      P295(I,K) = 0.
      P296(I,K) = 0.
      P297(I,K) = 0.
      P298(I,K) = 0.
   15 P299(I,K) = 0.
      P304(I) = 0.
      P305(I) = 0.
      P306(I) = 0.
      P310(I) = 0.
      P311(I) = 0.
      P312(I) = 0.
      P313(I) = 0.
      P314(I) = 0.
      P315(I) = 0.
      P316(I) = 0.
      P317(I) = 0.
      P318(I) = 0.
C
      RETURN
      END



      SUBROUTINE COSTB(NY,NP30,P108,P109,P110,P115,P116,P340,P135,P136,
     1                     P137,P236,P237,P238,P239,P240,P241,P242,P243,
     2                     P244,P245,P246,P247,P248,P249,P250,P251,P252,
     3                     P253,P254,P255,P256,P260,P261,P259,P258,P263,
     4                     P264,P265,P266,P267,P268,P269,P270,P271,P272,
     5                     P273,P274,P341,P257,IC)
      COMMON/ARRAY/T(2625)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1            A113(20,3),A10(20)
      COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
      DIMENSION NP30(20),P108(20,3),P109(20,3),P110(20,3),P115(20),
     1            P116(20),P340(20,3),P135(20,15),P136(20,15),P137(20,15),
     2            P236(20,15),P237(20,15),P238(20,15),P239(20,15),
     3            P240(20,15),P241(20,15),P242(20,15),P243(20,15),
     4            P244(20,15),P245(20,15),P246(20,15),P247(20,15),
     5            P248(20,15),P249(20,15),P250(20,15),P251(20,15),
     6            P252(20,15),P253(20,15),P254(20,15),P255(20,15),
     7            P256(20,15),P260(20,15),P261(20,15),P259(20,15),
     8            P258(20,15),P263(20,15),P264(20,15),P265(20,15),
     9            P266(20),P267(20),P268(20),P269(20),P270(20,3),
     A            P271(20),P272(20),P273(20),P274(20),P341(20),
     B            P257(20,15,3)
C
C   ACCUMULATE COSTS BY BASE
C
      IF(IC.EQ.0) GO TO 500
      WRITE(6,1000)
```

```
 1000 FORMAT(1H1)
C
  500 DO 1001 I = 1,15
      P258(NY,I) = 0.
      P263(NY,I) = 0.
      P264(NY,I) = 0.
 1001 P265(NY,I) = 0.
      DO 1002 I = 1,3
 1002 P270(NY,I) = 0.
      P266(NY) = 0.
      P267(NY) = 0.
      P268(NY) = 0.
      P269(NY) = 0.
      P271(NY) = 0.
      P272(NY) = 0.
      P273(NY) = 0.
      P274(NY) = 0.
      P341(NY) = 0.
C
    1 NP = 1
C
C  TRAINING A/C COST NOT ASSIGNABLE TO BASE
C
    2 P266(NY) = P266(NY) + P108(NY,NP)
C
C  TRAINING A/C SPARES COST NOT ASSIGNABLE TO BASE
C
      P267(NY) = P267(NY) + P109(NY,NP)
C
C  AEROSPACE GROUND EQUIP. COST NOT ASSIGNABLE TO BASE
C
      P268(NY) = P268(NY) + P110(NY,NP)
C
C  RDT AND E COST NOT ASSIGNABLE TO BASE
C
      P269(NY) = P269(NY) + A139(NY,NP)
C
C  RECURRING MODIFICATIONS COST NOT ASSIGNABLE TO BASE
C
      P341(NY) = P341(NY) + P340(NY,NP)
C
C  TOTAL COST BY PHASE NOT ASSIGNABLE TO BASE
C
      P270(NY,NP) = P108(NY,NP) + P109(NY,NP) + P110(NY,NP) +
     1       A139(NY,NP) + P340(NY,NP)
C
C  TOTAL COST (NOT ASSIGNABLE TO BASE)
C
      P272(NY) = P272(NY) + P270(NY,NP)
C
      IF(IC.EQ.0) GO TO 501
      WRITE(6,100) NY,NP,    P266(NY),P267(NY),P268(NY),P269(NY),
     1               P341(NY),P270(NY,NP),              P272(NY)
  100 FORMAT(3H NY,2X,I2,2X,2HNP,2X,I2,2X,                4HP266,2X,E13.6,
     1       2X,4HP267,2X,E13.6,2X,4HP268,2X,E13.6,2X,4HP269,2X,E13.6/
     2       25X,4HP341,2X,E13.6,2X,4HP270,2X,E13.6,2X,4HP272,2X,E13.6)
C
  501 IF(NP.GE.NA7(NY)) GO TO 5
      NP = NP + 1
      GO TO 2
C
C  TOTAL COST NOT ASSIGNABLE TC BASE OR PFASE
C
    5 P271(NY) = P115(NY) + P116(NY)
      P273(NY) = P272(NY) + P271(NY)
C
C  INVESTMENT COST - NO BASE
C
      P274(NY) = P266(NY) + P267(NY) + P268(NY) + P115(NY) + P116(NY)
C
      IF(IC.EQ.0) GO TO 502
      WRITE(6,102) NY,P271(NY),P273(NY),P274(NY)
  102 FORMAT(3H NY,2X,I2,10X,4HP271,2X,E13.6,2X,4HP273,2X,E13.6,2X,
     1       4HP274,2X,E13.6)
C
  502 NB = 1
    3 DO 4 NP = 1,3
C
C  TOTAL COST BY BASE
C
    4 P258(NY,NB) = P258(NY,NB) + P257(NY,NB,NP)
C
C
      P258(NY,NB) = P258(NY,NB) + P259(NY,NB)
C
C  INVESTFENT COST BY BASE
C
      P263(NY,NB) = P236(NY,NB) + P237(NY,NB) + P238(NY,NB) +
     1     P239(NY,NB) + P240(NY,NB) + P241(NY,NB) + P242(NY,NB) +
     2     P243(NY,NB) + P135(NY,NB) + P136(NY,NB) + P137(NY,NB) +
     3     A178(NY,NB) + A179(NY,NB) + 1CCC.*(T(NB+2315) + T(NB+2330) +
     4     T(NB+2345))
C
C  OPERATING COST BY BASE
C
      P264(NY,NB) = P244(NY,NB) + P245(NY,NB) + P246(NY,NB) +
     1     P247(NY,NB) + P248(NY,NB) + P249(NY,NB) + P250(NY,NB) +
     2     P251(NY,NB) + P252(NY,NB) + P253(NY,NB) + P254(NY,NB) +
     3     P255(NY,NB) + P256(NY,NB) + P260(NY,NB) + P261(NY,NB)
C
C  FOUSING COST
C
      P265(NY,NB) = 1000.*(T(NB+2315) + T(NB+2330) + T(NB+2345))
C
      IF(IC.EQ.0) GO TO 503
      WRITE(6,101) NY,NB,P258(NY,NB),P263(NY,NB),P264(NY,NB),P265(NY,NB)
  101 FORMAT(3H NY,2X,I2,2X,2HNB,2X,I2,2X,4HP258,2X,E13.6,2X,4HP263,2X,
     1       E13.6,2X,4HP264,2X,E13.6,2X,4HP265,2X,E13.6)
C
  503 IF(NB.GE.NP30(NY)) RETURN
      NB = NB + 1
      GO TC 3
C
      END
      SUBROUTINE COSTP(NY,     P108,P109,P110,P115,P116,P279,P280,P281,
     1                 P282,P283,P284,P285,P286,P287,P288,P289,P290,
     2                 P291,P292,P293,P294,P295,P296,P297,P298,P299,
     3                 PP300,P301,P302,P303,P304,P305,P306,P307,P308,
     4                 P309,P310,P311,P312,P313,P314,P315,P316,P317,
     5                 P318,P340,P276,P277,P278,P332,P333,P334,P335,
     6                 P319,P320,P321, IC)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1          A113(20,3),A10(20)
      COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
      DIMENSION         P108(20,3),P109(20,3),P110(20,3),P115(20),
     1          P116(20),P279(20,3),P280(20,3),P281(20,3),P282(20,3),
     2          P283(20,3),P284(20,3),P285(20,3),P286(20,3),P287(20,3),
     3          P288(20,3),P289(20,3),P290(20,3),P291(20,3),P292(20,3),
     4          P293(20,3),P294(20,3),P295(20,3),P296(20,3),P297(20,3),
     5          P298(20,3),P299(20,3),PP300(20),P301(20),P302(20),
     6          P303(20),P304(20),P305(20),P306(20),P307(20),P308(20),
     7          P309(20),P310(20),P311(20),P312(20),P313(20),P314(20),
     8          P315(20),P316(20),P317(20),P318(20),P340(20,3),
     9          P276(20,3), P277(20,3),P278(20,3),P332(20),P333(20),
     A          P334(20),P335(20),P319(20),P320(20),P321(20)
C
C  ACCUMULATE COSTS BY PHASE
C
      IF(IC.EQ.0) GO TO 600
      WRITE(6,1000)
 1000 FORMAT(1H1)
C
  600 DO 1001 I = 1,3
      P276(NY,I) = 0.
      P277(NY,I) = 0.
 1001 P278(NY,I) = 0.
      P319(NY) = 0.
      P320(NY) = 0.
      P321(NY) = 0.
      P332(NY) = 0.
      P333(NY) = 0.
      P334(NY) = 0.
      P335(NY) = 0.
C
      NP = 1
C
C  INVESTMENT COST BY PHASE
C
    1 P276(NY,NP) = P108(NY,NP) + P109(NY,NP) + P110(NY,NP) +
     1              P279(NY,NP) + P280(NY,NP) + P281(NY,NP) +
     2              P282(NY,NP) + P283(NY,NP) + P284(NY,NP) +
     3              P285(NY,NP) + P286(NY,NP)
C
C  OPERATING COST BY PHASE
C
      P277(NY,NP) = P287(NY,NP) + P288(NY,NP) + P289(NY,NP) +
     1              P290(NY,NP) + P291(NY,NP) + P292(NY,NP) +
     2              P293(NY,NP) + P294(NY,NP) + P295(NY,NP) +
     3              P296(NY,NP) + P297(NY,NP) + P298(NY,NP) +
     4              P299(NY,NP) + P340(NY,NP)
C
C  TOTAL COST BY PHASE
```

```
C
      P278(NY,NP) = P276(NY,NP) + P277(NY,NP) + A139(NY,NP)
C
C  TOTAL UPT COST FOR YEAR
C
      P332(NY) = P332(NY) + P278(NY,NP)
C
C  TOTAL UPT RDT AND E COST
C
      P333(NY) = P333(NY) + A139(NY,NP)
C
C  TOTAL UPT INVEST. COST
C
      P334(NY) = P334(NY) + P276(NY,NP)
C
C  TOTAL UPT OPER. COST
C
      P335(NY) = P335(NY) + P277(NY,NP)
C
      IF(IC.EQ.0) GO TO 601
      WRITE(6,500) NY,NP,P276(NY,NP),P277(NY,NP),P278(NY,NP),P332(NY),
     1             P333(NY),P334(NY),P335(NY)
  500 FORMAT(3H NY,2X,I2,2X,2HNP,2X,I2,2X,4HP276,2X,E13.6,2X,4HP277,2X,
     1      E13.6,2X,4HP278,2X,E13.6,2X,4HP332,2X,E13.6/17X,4HP333,2X,
     2      E13.6,2X,4HP334,2X,E13.6,2X,4HP335,2X,E13.6)
C
  601 IF(NP.GE.NA7(NY)) GO TO 5
      NP = NP + 1
      GO TO 1
C
C  INVESTMENT COST NOT ASSIGNABLE TO PHASE
C
    5 P319(NY) = P115(NY) + P116(NY) + PP300(NY) + P301(NY) + P302(NY)
     1          + P303(NY) + P304(NY) + P305(NY) + P306(NY) + P307(NY) +
     2            P308(NY) + P309(NY)
C
C  OPER. COST NOT ASSIGNABLE TO PHASE
C
      P320(NY) = P310(NY) + P311(NY) + P312(NY) + P313(NY) + P314(NY) +
     1           P315(NY) + P316(NY) + P317(NY) + P318(NY)
C
C  TOTAL COST NOT ASSIGNABLE TO PHASE
C
      P321(NY) = P319(NY) + P320(NY)
C
      P332(NY) = P332(NY) + P321(NY)
      P334(NY) = P334(NY) + P319(NY)
      P335(NY) = P335(NY) + P320(NY)
C
      IF(IC.EQ.0) RETURN
      WRITE(6,501) P319(NY),P320(NY),P321(NY),P332(NY),P334(NY),P335(NY)
  501 FORMAT(1H ,16X,4HP319,2X,E13.6,2X,4HP320,2X,E13.6,2X,4HP321,2X,
     1      E13.6/17X,4HP332,2X,E13.6,2X,4HP334,2X,E13.6,2X,4HP335,2X,
     2      E13.6)
C
      RETURN
      END
      SUBROUTINE PRINT1(NYRS,NYEAR,P29,P25,P208)
      DIMENSION P29(1),P25(1),          P208(1),NYEAR(1)
      COMMON/TWO/A11(20,5),A12(20,5,3),NA14(20),A224(20),A13(20,3)
C
      IF(NYRS.GT.10) GO TO 13
      WRITE(6,11)
   11 FORMAT(1H1,//////////////////,43X,47HUNDERGRADUATE PILOT TRAINING
     1CAPABILITY SUMMARY///)
      GO TO 14
C
   13 WRITE(6,10)
   10 FORMAT(1H1,42X,47HUNDERGRADUATE PILOT TRAINING CAPABILITY SUMMARY/
     1//)
C
   14 II = 1
      IF(NYRS.GT.10) GO TO 22
      JJ = NYRS
      GO TO 24
   22 JJ = 10
   24 WRITE(6,25) (NYEAR(I),I=II,JJ)
   25 FORMAT(1H0,27X,10(6X,I4)/)
C
      WRITE(6,30)
   30 FORMAT(13H0MAXIMUM LOAD)
      WRITE(6,31)(P29(I),I = II,JJ)
   31 FORMAT(1H0,4X,20HMAXIMUM STUDENT LOAD,3X,10(3X,F7.0)/)
C
      WRITE(6,32)
   32 FORMAT(14H0REQUIRED LOAD)
      WRITE(6,33) (P25(I),I = II,JJ)
   33 FORMAT(1H0,4X,19HACTUAL STUDENT LOAD,4X,10(4X,F6.0))
C
      WRITE(6,34) (A224(I),I = II,JJ)
   34 FORMAT(1H0,4X,18HSURGE STUDENT LOAD,5X,10(4X,F6.0))
      WRITE(6,35) (P208(I),I = II,JJ)
   35 FORMAT(1H0,4X,22HACTUAL PLUS SURGE LOAD,1X,10(4X,F6.0)//)
C
      IF(JJ.EQ.NYRS) GO TO 50
      II = 11
      JJ = NYRS
      WRITE(6,12)
   12 FORMAT(1H0,//////////)
      GO TO 24
C
   50 RETURN
      END
```

```
      SUBROUTINE PRINT2(NYRS,NYEAR,NB,P18A,P20,P19,P31,P24,P27,P28,P103)
      DIMENSION NYEAR(1),P18A(20,15,3),P20(20,15,3),P19(20,15,3),
     1          P31(20,15,3),P24(20,15,3),P27(20,15,3),P28(20,1),
     2           P103(20,1)
C
```

```
      DO 500 IK = 1,NB
      II = 1
      IF(NYRS.GT.10) GO TO 10
      JJ = NYRS
      GO TO 15
   10 JJ = 10
   15 WRITE(6,5)
    5 FORMAT(1H1,43X,44HUNDERGRADUATE PILOT TRAINING BASE CAPABILITY/)
      WRITE(6,6) IK
    6 FORMAT(1H0,57X,15HAIR FORCE BASE ,I2/)
      WRITE(6,7)(NYEAR(I),I = II,JJ)
    7 FORMAT(1H0,37X,10(5X,I4)/)
C
      DO 300 J = 1,3
      WRITE(6,8) J
    8 FORMAT(7H0PHASE ,I1)
      WRITE(6,9)
    9 FORMAT(1H0,2X,7HRUNWAYS)
      WRITE(6,11) (P18A(I,IK,J),I = II,JJ)
   11 FORMAT(1H ,5X,17HRUNWAYS AVAILABLE,16X,10(7X,F2.0))
      WRITE(6,12) (P20(I,IK,J),I = II,JJ)
   12 FORMAT(1H ,5X,33HMINIMUM EFFECTIVE LAUNCH INTERVAL,3X,
     1 10(4X,F5.3))
C
      WRITE(6,13)
   13 FORMAT(1H0,2X,8HAIRSPACE)
      WRITE(6,14) (P19(I,IK,J), I = II,JJ)
   14 FORMAT(1H ,5X,19HAIRSPACES AVAILABLE,13X,1X,10(6X,F3.0))
      WRITE(6,12) (P31(I,IK,J),I = II,JJ)
C
      WRITE(6,16)
   16 FORMAT(1H0,2X,12HSTUDENT LOAD)
      WRITE(6,17) (P24(I,IK,J), I = II,JJ)
   17 FORMAT(1H ,5X,18HMAXIMUM PHASE LOAD,15X,10(4X,F5.0))
      WRITE(6,18) (P27(I,IK,J), I = II,JJ)
   18 FORMAT(1H ,5X,31HMAXIMUM COURSE LOAD SUPPORTABLE,2X,10(4X,F5.0))
C
  300 CONTINUE
C
      WRITE(6,19)
   19 FORMAT(7H0COURSE)
      WRITE(6,20) (P28(I,IK), I = II,JJ)
   20 FORMAT(1H0,2X,20HMAXIMUM STUDENT LOAD,16X,10(2X,F7.0))
      WRITE(6,21) (P103(I,IK), I = II,JJ)
   21 FORMAT(1H ,2X,19HACTUAL STUDENT LOAD,17X,10(4X,F5.0))
C
      IF(JJ.EQ.NYRS) GO TO 500
      II = 11
      JJ = NYRS
      GO TO 15
C
  500 CONTINUE
C
      RETURN
      END
      SUBROUTINE PRINT3(NYRS,NYEAR,P4,P5,P235,P236,P237,P238,
     1                  P239,P17,P25)
      COMMON/ONE/A1(20,3),A2(20,3),NA7(20),A43(20,3),A44(20,3),
     1 A113(20,3),A10(20)
      DIMENSION NYEAR(1), P4(20,1),P5(1),P235(1),P236(1),P237(1),
     1 P238(1),P239(1),P17(22,1),P25(1)
      DIMENSION DUMMY(20,3)
C
      II = 1
      IF(NYRS.GT.10) GO TO 22
      JJ = NYRS
      GO TO 23
   22 JJ = 10
   23 WRITE(6,10)
   10 FORMAT(1H1,47X,36HUNDERGRADUATE PILOT TRAINING PROGRAM//)
C
   24 WRITE(6,25) (NYEAR(I), I = II,JJ)
   25 FORMAT(1H0,27X,10(6X,I4)/)
C
      WRITE(6,30)
   30 FORMAT(16H0COURSE SYLLABUS/)
C
      WRITE(6,31)
   31 FORMAT(1H ,3X,12HFLYING HOURS)
      DO 32 J = 1,3
      DO 100 I = II,JJ
      IF(J.GT.NA7(I)) GO TO 101
      DUMMY(I,J) = A1(I,J)
      GO TO 100
  101 DUMMY(I,J) = 0.
  100 CONTINUE
   32 WRITE(6,33) J, (DUMMY(I,J), I = II,JJ)
   33 FORMAT(1H ,6X,6HPHASE ,I2,14X,10(5X,F5.1))
      WRITE(6,34) (P236(I), I = II,JJ)
   34 FORMAT(1H ,6X,5HTOTAL,17X,10(5X,F5.1))
C
      WRITE(6,35)
   35 FORMAT(1H0,3X,15HSIMULATOR HOURS)
      DO 36 J = 1,3
      DO 200 I = II,JJ
      IF(J.GT.NA7(I)) GO TO 201
      DUMMY(I,J) = A113(I,J)
      GO TO 200
  201 DUMMY(I,J) = 0.
  200 CONTINUE
   36 WRITE(6,33) J, (DUMMY(I,J), I = II,JJ)
      WRITE(6,34) (P237(I), I = II,JJ)
C
      WRITE(6,37)
   37 FORMAT(1H0,3X,23HACADEMIC TRAINING HOURS)
      DO 38 J = 1,3
      DO 300 I = II,JJ
      IF(J.GT.NA7(I)) GO TO 301
      DUMMY(I,J) = A43(I,J)
      GO TO 300
  301 DUMMY(I,J) = 0.
  300 CONTINUE
   38 WRITE(6,33) J, (DUMMY(I,J), I = II,JJ)
```

```
      WRITE(6,34) (P238(I), I = II,JJ)
C
      WRITE(6,39)
   39 FORMAT(1H0,3X,22HOFFICER TRAINING HOURS)
      DO 40 J = 1,3
      DO 400 I = II,JJ
      IF(J.GT.NA7(I)) GO TO 401
      DUMMY(I,J) = A44(I,J)
      GO TO 400
  401 DUMMY(I,J) = 0.
  400 CONTINUE
   40 WRITE(6,33) J, (DUMMY(I,J), I = II,JJ)
      WRITE(6,34) (P239(I), I = II,JJ)
C
      WRITE(6,41)
   41 FORMAT(16HOCOURSE DURATION/)
      WRITE(6,42)
   42 FORMAT(1H ,3X,13HCALENDAR DAYS)
      DO 43 J = 1,3
   43 WRITE(6,44) J, (P4(I,J), I = II,JJ)
   44 FORMAT(1H ,6X,6HPHASE ,I2,13X,10(6X,F4.0))
      WRITE(6,45) (P5(I), I = II,JJ)
   45 FORMAT(1H ,6X,5HTOTAL,16X,10(6X,F4.0)/)
C
      WRITE(6,46)
   46 FORMAT(9HOSTUDENTS/)
      WRITE(6,47) (P235(I), I = II,JJ)
   47 FORMAT(1H ,3X,15HSTUDENT ENTRIES,9X,10(5X,F5.0)/)
      WRITE(6,48)
   48 FORMAT(1H ,3X,12HSTUDENT LOAD)
      DO 49 J = 1,3
   49 WRITE(6,50) J, (P17(I,J), I = II,JJ)
   50 FORMAT(1H ,6X,6HPHASE ,I2,13X,10(5X,F5.0))
      WRITE(6,51) (P25(I), I = II,JJ)
   51 FORMAT(1H ,6X,5HTOTAL,16X,10(5X,F5.0))
      WRITE(6,52) (A10(I), I = II,JJ)
   52 FORMAT(1H0,3X,13HUPT GRADUATES,11X,10(5X,F5.0))
C
      IF(JJ.EQ.NYRS) GO TO 55
      II = 11
      JJ = NYRS
      GO TO 23
C
   55 RETURN
      END



      SUBROUTINE PRINT4(NYRS,NYEAR,NB,P103,P210,P211,P212,P213,P214,
     1                  P215,P216,P217,P218,P219,P220,P221,P223,P224,
     2                  P225,P226,P227,P228,P229)
      DIMENSION NYEAR(1),P103(20,15),P210(20,15),P211(20,15),
     1          P212(20,15),P213(20,15),P214(20,15),P215(20,15),
     2          P216(20,15),P217(20,15),P218(20,15),P219(20,15),
     3          P220(20,15),P221(20,15),P223(20,15),P224(20,15),
     4          P225(20,15),P226(20,15),P227(20,15,3),P228(20,15),
     5          P229(20,15)
```

```
C
      DO 500 IK = 1,NB
      II = 1
      IF(NYRS.GT.10) GO TO 10
      JJ = NYRS
      GO TO 15
   10 JJ = 10
   15 WRITE(6,5)
    5 FORMAT(1H1,47X,37HUNDERGRADUATE PILOT TRAINING MANPOWER)
      WRITE(6,6) IK
    6 FORMAT(1H0,57X,15HAIR FORCE BASE ,I2/)
      WRITE(6,7) (NYEAR(I),I = II,JJ)
    7 FORMAT(1H0,39X,10(5X,I4))
C
      WRITE(6,8)
    8 FORMAT(11H0OPERATIONS)
      WRITE(6,9) (P103(I,IK),I = II,JJ)
    9 FORMAT(1H0,2X,8HSTUDENTS,29X,10(4X,F5.0))
      WRITE(6,11) (P210(I,IK), I = II,JJ)
   11 FORMAT(1H ,2X,26HPILOT TRAINING SQUADRON(S),11X,10(4X,F5.0))
      WRITE(6,12) (P211(I,IK),I = II,JJ)
   12 FORMAT(1H ,2X,16HSTUDENT SQUADRON,21X,10(4X,F5.0))
      WRITE(6,13) (P212(I,IK),I = II,JJ)
   13 FORMAT(1H ,2X,16HSIMULATOR BRANCH,21X,10(4X,F5.0))
C
      WRITE(6,14)
   14 FORMAT(12H0MAINTENANCE)
      WRITE(6,16) (P213(I,IK), I = II,JJ)
   16 FORMAT(1H0,2X,26HFIELD MAINTENANCE SQUADRON,11X,10(4X,F5.0))
      WRITE(6,17) (P214(I,IK),I = II,JJ)
   17 FORMAT(1H ,2X,35HORGANIZATIONAL MAINTENANCE SQUADRON,
     1       2X,10(4X,F5.0))
C
      WRITE(6,18)
   18 FORMAT(15H0ADMINISTRATIVE)
      WRITE(6,19) (P215(I,IK),I = II,JJ)
   19 FORMAT(1H0,2X,19HPILOT TRAINING WING,18X,10(4X,F5.0))
      WRITE(6,41)
   41 FORMAT(1H ,6X,23H(LESS SIMULATOR BRANCH))
C
      WRITE(6,20)
   20 FORMAT(8H0SUPPORT)
      WRITE(6,21) (P220(I,IK),I = II,JJ)
   21 FORMAT(1H0,2X,14HAIR BASE GROUP,23X,10(4X,F5.0))
      WRITE(6,22) (P221(I,IK),I = II,JJ)
   22 FORMAT(1H ,2X,25HUSAF HOSPITAL(DISPENSARY),12X,10(4X,F5.0))
      WRITE(6,23) (P216(I,IK), I = II,JJ)
   23 FORMAT(1H ,2X,15HSUPPLY SQUADRON,22X,10(4X,F5.0))
      WRITE(6,24) (P218(I,IK), I = II,JJ)
   24 FORMAT(1H ,2X,16HSUPPORT SQUADRON,21X,10(4X,F5.0))
      WRITE(6,25) (P217(I,IK), I = II,JJ)
   25 FORMAT(1H ,2X,23HFIELD TRAINING SQUADRON,14X,10(4X,F5.0))
      WRITE(6,26) (P219(I,IK), I = II,JJ)
   26 FORMAT(1H ,2X,15HSUPPORT TENANTS,22X,10(4X,F5.0))
C
      WRITE(6,27)
   27 FORMAT(7H0TOTALS)
      WRITE(6,28)
   28 FORMAT(1H0,2X,23HPERMANENT PARTY BY TYPE)
```

```
      WRITE(6,29) (P223(I,IK),I = II,JJ)
   29 FORMAT(1H ,5X,8HOFFICERS,26X,10(4X,F5.0))
      WRITE(6,30) (P224(I,IK),I= II,JJ)
   30 FORMAT(1H ,5X,6HAIRMEN,28X,10(4X,F5.0))
      WRITE(6,31) (P225(I,IK), I = II,JJ)
   31 FORMAT(1H ,5X,9HCIVILIANS,25X,10(4X,F5.0))
      WRITE(6,32) (P226(I,IK),I = II,JJ)
   32 FORMAT(1H ,5X,5HTOTAL,29X,10(4X,F5.0))
      WRITE(6,33)
   33 FORMAT(1H0,2X,24HPERMANENT PARTY BY PHASE)
      DO 35 J = 1,3
   35 WRITE(6,34) J,(P227(I,IK,J), I = II,JJ)
   34 FORMAT(1H ,5X,5HPHASE,I2,27X,10(4X,F5.0))
      WRITE(6,36) (P228(I,IK), I = II,JJ)
   36 FORMAT(1H ,5X,23HNOT ASSIGNABLE BY PHASE,11X,10(4X,F5.0))
      WRITE(6,32) (P226(I,IK), I = II,JJ)
      WRITE(6,38)
   38 FORMAT(1H0,2X,14HTOTAL MANPOWER)
      WRITE(6,39) (P103(I,IK), I = II,JJ)
   39 FORMAT(1H ,5X,8HSTUDENTS,26X,10(4X,F5.0))
      WRITE(6,40) (P226(I,IK), I = II,JJ)
   40 FORMAT(1H ,5X,15HPERMANENT PARTY,19X,10(4X,F5.0))
      WRITE(6,32) (P229(I,IK),I = II,JJ)
C
      IF(JJ.EQ.NYRS) GO TO 500
      II = 11
      JJ = NYRS
      GO TO 15
C
  500 CONTINUE
      RETURN
      END




      SUBROUTINE PRINT5(NYRS,NYEAR,P230,P92,P300,P96)
      COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
      DIMENSION P230(20,3),P92(20,3),P300(20,3),NYEAR(20),P96(20,3)
C
      WRITE(6,10)
   10 FORMAT(1H1,47X,37HUNDERGRADUATE PILOT TRAINING AIRCRAFT//)
C
      II = 1
      IF(NYRS.GT.10) GO TO 22
      JJ = NYRS
      GO TO 24
   22 JJ = 10
   24 WRITE(6,25) (NYEAR(I),I = II,JJ)
   25 FORMAT(1H0,27X,10(6X,I4)/)
C
      WRITE(6,29)
   29 FORMAT(12H0REQUIREMENT)
C
      DO 70 J = 1,3
   70 WRITE(6,36) J, (P96(I,J), I = II,JJ)
C
      WRITE(6,30)
   30 FORMAT(30H0INVENTORY (BEGINNING OF YEAR))
C
      DO 35 J = 1,3
   35 WRITE(6,36) J,(P230(I,J),I = II,JJ)
   36 FORMAT(1H ,4X,5HPHASE,1X,I1,16X,10(4X,F6.1))
C
      WRITE(6,40)
   40 FORMAT(32H0ADDITIONS BY USER (DURING YEAR))
C
      DO 45 J = 1,3
   45 WRITE(6,36) J,(A111(I,J),I = II,JJ)
C
      WRITE(6,50)
   50 FORMAT(33H0ADDITIONS BY MODEL (DURING YEAR))
C
      DO 55 J = 1,3
   55 WRITE(6,36) J,(P92(I,J),I = II,JJ)
C
      WRITE(6,60)
   60 FORMAT(22H0LOSSES FROM ATTRITION/8X,13H(DURING YEAR))
C
      DO 65 J = 1,3
   65 WRITE(6,36) J,(P300(I,J),I = II,JJ)
C
      IF(JJ.EQ.NYRS) GO TO 100
      II = 11
      JJ = NYRS
      GO TO 24
C
  100 RETURN
      END




      SUBROUTINE PRINT6(NYRS,NYEAR,P93,P231,P95,NB)
      DIMENSION NYEAR(20),P93(20,15,3),P231(20,15,3),P95(20,15,3)
      COMMON/FIVE/A111(20,3),A116(20,15,3),A146(20,15),A147(20,15)
C
      DO 100 J = 1,NB
C
      WRITE(6,10)
   10 FORMAT(1H1,46X,39HUNDERGRADUATE PILOT TRAINING SIMULATORS)
      WRITE(6,11) J
   11 FORMAT(1H0,57X,15HAIR FORCE BASE ,I2//)
C
      II = 1
      IF(NYRS.GT.10) GO TO 22
      JJ = NYRS
      GO TO 24
   22 JJ = 10
   24 WRITE(6,25) (NYEAR(I),I = II,JJ)
   25 FORMAT(1H0,27X,10(6X,I4)/)
C
      WRITE(6,29)
   29 FORMAT(12H0REQUIREMENT)
C
      DO 70 K = 1,3
   70 WRITE(6,36) K, (P93(I,J,K), I = II,JJ)
C
      WRITE(6,30)
   30 FORMAT(30H0INVENTORY (BEGINNING OF YEAR))
C
      DO 35 K = 1,3
   35 WRITE(6,36) K, (P231(I,J,K), I = II,JJ)
   36 FORMAT(1H ,4X,5HPHASE,1X,I1,16X,10(4X,F6.1))
C
      WRITE(6,40)
   40 FORMAT(32H0ADDITIONS BY USER (DURING YEAR))
C
      DO 45 K = 1,3
   45 WRITE(6,36) K, (A116(I,J,K), I = II,JJ)
C
      WRITE(6,50)
   50 FORMAT(33H0ADDITIONS BY MODEL (DURING YEAR))
C
      DO 55 K = 1,3
   55 WRITE(6,36) K, (P95(I,J,K), I = II,JJ)
C
C
      IF(JJ.EQ.NYRS) GO TO 100
      II = 11
      JJ = NYRS
      GO TO 24
C
  100 CONTINUE
      RETURN
      END




      SUBROUTINE PRINT7(NYRS,NYEAR,P135,P136,P137,P236,P237,P238,P239,
     1                  P240,P241,P242,P243,P244,P245,P246,P247,P248,
     2                  P249,P250,P251,P252,P253,P254,P255,P256,P257,
     3                  P258,P259,P260,P261,P263,P264,P265,NB)
      COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
      DIMENSION NYEAR(20),P135(20,15),P136(20,15),P137(20,15),
     1          P236(20,15),P237(20,15),P238(20,15),P239(20,15),
     2          P240(20,15),P241(20,15),P242(20,15),P243(20,15),
     3          P244(20,15),P245(20,15),P246(20,15),P247(20,15),
     4          P248(20,15),P249(20,15),P250(20,15),P251(20,15),
     5          P252(20,15),P253(20,15),P254(20,15),P255(20,15),
     6          P256(20,15),P257(20,15,3),P258(20,15),P259(20,15),
     7          P260(20,15),P261(20,15),P263(20,15),P264(20,15),
     8          P265(20,15)
C
      DO 500 IK = 1,NB
      II = 1
      IF(NYRS.GT.10) GO TO 10
      JJ = NYRS
      GO TO 15
   10 JJ = 10
C
C  SCALE OUTPUT VARIABLES
C
```

```
   15 DO 20 I = II,JJ
      A178(I,IK) = A178(I,IK)/1000.
      A179(I,IK) = A179(I,IK)/1000.
      P135(I,IK) = P135(I,IK)/1000.
      P136(I,IK) = P136(I,IK)/1000.
      P137(I,IK) = P137(I,IK)/1000.
      P236(I,IK) = P236(I,IK)/1000.
      P237(I,IK) = P237(I,IK)/1000.
      P238(I,IK) = P238(I,IK)/1000.
      P239(I,IK) = P239(I,IK)/1000.
      P240(I,IK) = P240(I,IK)/1000.
      P241(I,IK) = P241(I,IK)/1000.
      P242(I,IK) = P242(I,IK)/1000.
      P243(I,IK) = P243(I,IK)/1000.
      P244(I,IK) = P244(I,IK)/1000.
      P245(I,IK) = P245(I,IK)/1000.
      P246(I,IK) = P246(I,IK)/1000.
      P247(I,IK) = P247(I,IK)/1000.
      P248(I,IK) = P248(I,IK)/1000.
      P249(I,IK) = P249(I,IK)/1000.
      P250(I,IK) = P250(I,IK)/1000.
      P251(I,IK) = P251(I,IK)/1000.
      P252(I,IK) = P252(I,IK)/1000.
      P253(I,IK) = P253(I,IK)/1000.
      P254(I,IK) = P254(I,IK)/1000.
      P255(I,IK) = P255(I,IK)/1000.
      P256(I,IK) = P256(I,IK)/1000.
      P258(I,IK) = P258(I,IK)/1000.
      P259(I,IK) = P259(I,IK)/1000.
      P260(I,IK) = P260(I,IK)/1000.
      P261(I,IK) = P261(I,IK)/1000.
      P263(I,IK) = P263(I,IK)/1000.
      P264(I,IK) = P264(I,IK)/1000.
      P265(I,IK) = P265(I,IK)/1000.
      DO 19 J = 1,3
   19 P257(I,IK,J) = P257(I,IK,J)/1000.
   20 CONTINUE
C
      WRITE(6,5)
    5 FORMAT(1H1,35X,60HUNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS
     1 OF DOLLARS)/)
      WRITE(6,6) IK
    6 FORMAT(1H0,57X,15HAIR FORCE BASE ,I2/)
      WRITE(6,7)(NYEAR(I),I = II,JJ)
    7 FORMAT(1H0,29X,10(6X,I4)/)
C
      WRITE(6,30)
   30 FORMAT(11H0INVESTMENT)
      WRITE(6,31) (P236(I,IK), I = II,JJ)
   31 FORMAT(1H0,2X,10HSIMULATORS,17X,10(4X,F6.0))
      WRITE(6,32) (P237(I,IK), I = II,JJ)
   32 FORMAT(1H ,2X,16HSIMULATOR SPARES,11X,10(4X,F6.0))
      WRITE(6,33) (P238(I,IK), I = II,JJ)
   33 FORMAT(1H ,2X,18HTRAINING EQUIPMENT, 9X,10(4X,F6.0))
      WRITE(6,34) (P239(I,IK), I = II,JJ)
   34 FORMAT(1H ,2X,22HBASE SUPPORT EQUIPMENT,5X,10(4X,F6.0))
      WRITE(6,35)
   35 FORMAT(1H ,2X,10HFACILITIES)
      WRITE(6,36) (P135(I,IK), I = II,JJ)
   36 FORMAT(1H ,5X,19HNEW BASE CONVERSION,5X,10(4X,F6.0))
      WRITE(6,37) (P240(I,IK), I = II,JJ)
   37 FORMAT(1H ,5X,7HRUNWAYS,17X,10(4X,F6.0))
      WRITE(6,38) (P136(I,IK), I = II,JJ)
   38 FORMAT(1H ,5X,19HSIMULATOR BUILDINGS,5X,10(4X,F6.0))
      WRITE(6,39) (P137(I,IK), I = II,JJ)
   39 FORMAT(1H ,5X,19HCLASSROOM BUILDINGS,5X,10(4X,F6.0))
      WRITE(6,40) (A179(I,IK), I = II,JJ)
   40 FORMAT(1H ,5X,24HFLY. TRAIN. BASIC BLDGS.,   10(4X,F6.0))
      WRITE(6,41) (P265(I,IK), I = II,JJ)
   41 FORMAT(1H ,5X,7HHOUSING,17X,10(4X,F6.0))
      WRITE(6,42) (A178(I,IK), I = II,JJ)
   42 FORMAT(1H ,5X,5HOTHER,19X,10(4X,F6.0))
      WRITE(6,43) (P241(I,IK), I = II,JJ)
   43 FORMAT(1H ,2X,6HSTOCKS,21X,10(4X,F6.0))
      WRITE(6,44) (P242(I,IK), I = II,JJ)
   44 FORMAT(1H ,2X,16HINITIAL TRAINING,11X,10(4X,F6.0))
      WRITE(6,45) (P243(I,IK), I = II,JJ)
   45 FORMAT(1H ,2X,14HINITIAL TRAVEL,13X,10(4X,F6.0))
C
      WRITE(6,46)
   46 FORMAT(10HOOPERATING)
      WRITE(6,47)
   47 FORMAT(1H0,2X,24HTRAINING A/C MAINTENANCE)
      WRITE(6,48) (P244(I,IK), I = II,JJ)
   48 FORMAT(1H ,5X,17HDEPOT MAINTENANCE,7X,10(4X,F6.0))
      WRITE(6,49) (P245(I,IK), I = II,JJ)
   49 FORMAT(1H ,5X,13HBASE MATERIAL,11X,10(4X,F6.0))
      WRITE(6,50) (P246(I,IK), I = II,JJ)
   50 FORMAT(1H ,5X,22HCONTRACTED MAINTENANCE,2X,10(4X,F6.0))
      WRITE(6,51) (P247(I,IK), I = II,JJ)
   51 FORMAT(1H0,2X,16HTRAINING A/C POL,11X,10(4X,F6.0))
      WRITE(6,52) (P260(I,IK), I = II,JJ)
   52 FORMAT(1H ,2X,19HSUPPORT A/C O AND M, 8X,10(4X,F6.0))
      WRITE(6,53) (P261(I,IK), I = II,JJ)
   53 FORMAT(1H ,2X,19HR AND R A/C O AND M, 8X,10(4X,F6.0))
C
      WRITE(6,54)
   54 FORMAT(1H1//////)
      WRITE(6,7) (NYEAR(I), I = II,JJ)
      WRITE(6,55)
   55 FORMAT(1H0,21HOPERATING (CONTINUED))
      WRITE(6,56) (P248(I,IK), I = II,JJ)
   56 FORMAT(1H0,2X,25HSIMULATOR MAT. AND SERVS.,2X,10(4X,F6.0))
      WRITE(6,57) (P249(I,IK), I = II,JJ)
   57 FORMAT(1H ,2X,26HFACILITIES MAT. AND SERVS.,1X,10(4X,F6.0))
      WRITE(6,58) (P250(I,IK), I = II,JJ)
   58 FORMAT(1H ,2X,26HCONTRACTED FLYING TRAINING,1X,10(4X,F6.0))
      WRITE(6,59)
   59 FORMAT(1H0,2X,18HPAY AND ALLOWANCES, 9X,10(4X,F6.0))
      WRITE(6,60) (P251(I,IK), I = II,JJ)
   60 FORMAT(1H0,5X,8HOFFICERS,16X,10(4X,F6.0))
      WRITE(6,61) (P252(I,IK), I = II,JJ)
   61 FORMAT(1H ,5X,6HAIRMEN,18X,10(4X,F6.0))
      WRITE(6,62) (P253(I,IK), I = II,JJ)
   62 FORMAT(1H ,5X,9HCIVILIANS,15X,10(4X,F6.0))
      WRITE(6,63) (P254(I,IK), I = II,JJ)
   63 FORMAT(1H0,2X,8HTRAINING,19X,10(4X,F6.0))
      WRITE(6,64) (P255(I,IK), I = II,JJ)
   64 FORMAT(1H ,2X,6HTRAVEL,21X,10(4X,F6.0))
      WRITE(6,65) (P256(I,IK), I = II,JJ)
   65 FORMAT(1H ,2X,21HSUPPLIES AND SERVICES,6X,10(4X,F6.0))
C
      WRITE(6,66)
   66 FORMAT(13H0COST BY TYPE)
      WRITE(6,67) (P263(I,IK), I = II,JJ)
   67 FORMAT(1H0,2X,10HINVESTMENT,17X,10(4X,F6.0))
      WRITE(6,68) (P264(I,IK), I = II,JJ)
   68 FORMAT(1H ,2X,9HOPERATING,18X,10(4X,F6.0))
      WRITE(6,69) (P258(I,IK), I = II,JJ)
   69 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
      WRITE(6,70)
   70 FORMAT(14H0COST BY PHASE/)
      DO 72 K = 1,3
      WRITE(6,71) K, (P257(I,IK,K), I = II,JJ)
   71 FORMAT(1H ,2X,5HPHASE,I2,20X,10(3X,F7.0))
   72 CONTINUE
      WRITE(6,73) (P259(I,IK), I = II,JJ)
   73 FORMAT(1H ,2X,23HNOT ASSIGNABLE TO PHASE,4X,10(3X,F7.0))
      WRITE(6,74) (P258(I,IK), I = II,JJ)
   74 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
      IF(JJ.EQ.NYRS) GO TO 500
      II = 11
      JJ = NYRS
      GO TO 15
  500 CONTINUE
C
      RETURN
      END





      SUBROUTINE PRINT8(NYRS,NYEAR,P115,P116,P266,P267,P268,P269,P270,
     1                  P271,P273,P274,P341)
      DIMENSION P115(20),P116(20),P266(20),P267(20),P268(20),P269(20),
     1          P270(20,3),P271(20),P273(20),P274(20),P341(20),NYEAR(20)
C
      WRITE(6,10)
   10 FORMAT(1H1,35X,60HUNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS
     1 OF DOLLARS)/55X,22HNOT ASSIGNABLE TO BASE/)
C
      II = 1
      IF(NYRS.GT.10) GO TO 11
      JJ = NYRS
      GO TO 12
   11 JJ = 10
C
   12 WRITE(6,13) (NYEAR(I), I = II,JJ)
   13 FORMAT(1H0,29X,10(6X,I4)/)
C
C
C  SCALE INPUT VARIABLES
C
      DO 20 I = II,JJ
      P115(I) = P115(I)/1000.
      P116(I) = P116(I)/1000.
      P266(I) = P266(I)/1000.
      P267(I) = P267(I)/1000.
      P268(I) = P268(I)/1000.
      P269(I) = P269(I)/1000.
      P271(I) = P271(I)/1000.
      P273(I) = P273(I)/1000.
      P274(I) = P274(I)/1000.
      P341(I) = P341(I)/1000.
      DO 19 J = 1,3
   19 P270(I,J) = P270(I,J)/1000.
   20 CONTINUE
C
      WRITE(6,30) (P269(I), I = II,JJ)
   30 FORMAT(10H0RDT AND E,20X,10(3X,F7.0))
      WRITE(6,31)
   31 FORMAT(11H0INVESTMENT)
      WRITE(6,32) (P266(I), I = II,JJ)
   32 FORMAT(1H0,2X,17HTRAINING AIRCRAFT,10X,10(3X,F7.0))
      WRITE(6,33) (P116(I), I = II,JJ)
   33 FORMAT(1H ,2X,16HSUPPORT AIRCRAFT,11X,10(3X,F7.0))
      WRITE(6,34) (P115(I), I = II,JJ)
   34 FORMAT(1H ,2X,23HRESCUE AND RECOVERY A/C,4X,10(3X,F7.0))
      WRITE(6,35) (P267(I), I = II,JJ)
   35 FORMAT(1H ,2X,19HTRAINING A/C SPARES,8X,10(3X,F7.0))
      WRITE(6,36) (P268(I), I = II,JJ)
   36 FORMAT(1H ,2X,23HAEROSPACE GROUND EQUIP.,4X,10(3X,F7.0))
C
      WRITE(6,37)
   37 FORMAT(10H0OPERATING)
      WRITE(6,38) (P341(I), I = II,JJ)
   38 FORMAT(1H0,2X,23HRECURRING MODIFICATIONS,4X,10(3X,F7.0))
C
      WRITE(6,39)
   39 FORMAT(13H0COST BY TYPE)
      WRITE(6,40) (P269(I), I = II,JJ)
   40 FORMAT(1H0,2X, 9HRDT AND E,18X,10(3X,F7.0))
      WRITE(6,41) (P274(I), I = II,JJ)
   41 FORMAT(1H ,2X,10HINVESTMENT,17X,10(3X,F7.0))
      WRITE(6,42) (P341(I), I = II,JJ)
   42 FORMAT(1H ,2X, 9HOPERATING,18X,10(3X,F7.0))
      WRITE(6,43) (P273(I), I = II,JJ)
   43 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
      WRITE(6,44)
   44 FORMAT(14H0COST BY PHASE/)
      DO 46 J = 1,3
      WRITE(6,45) J, (P270(I,J), I = II,JJ)
   45 FORMAT(1H ,2X,5HPHASE,I2,20X,10(3X,F7.0))
   46 CONTINUE
      WRITE(6,47) (P271(I), I = II,JJ)
   47 FORMAT(1H ,2X,23HNOT ASSIGNABLE TO PHASE,4X,10(3X,F7.0))
    48 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
      WRITE(6,48) (P273(I), I = II,JJ)
C
      IF(JJ.EQ.NYRS) RETURN
      II = 11
      JJ = NYRS
      WRITE(6,10)
      GO TO 12
C
      END




      SUBROUTINE PRINT9(NYRS,NYEAR,P108,P109,P110,P276,P277,P278,P279,
     1                  P280,P281,P282,P283,P284,P285,P286,P287,P288,
     2                  P289,P290,P291,P292,P293,P294,P295,P296,P297,
     3                  P298,P299,P340)
      COMMON/SEVEN/A139(20,3),A178(20,15),A179(20,15)
      DIMENSION P108(20,3),P109(20,3),P110(20,3),P276(20,3),P277(20,3),
     1          P278(20,3),P279(20,3),P280(20,3),P281(20,3),P282(20,3),
     2          P283(20,3),P284(20,3),P285(20,3),P286(20,3),P287(20,3),
     3          P288(20,3),P289(20,3),P290(20,3),P291(20,3),P292(20,3),
     4          P293(20,3),P294(20,3),P295(20,3),P296(20,3),P297(20,3),
     5          P298(20,3),P299(20,3),P340(20,3),NYEAR(20)
      DO 100 J = 1,3
      II = 1
      IF(NYRS.GT.10) GO TO 5
      JJ = NYRS
      GO TO 10
    5 JJ = 10
C
   10 WRITE(6,11)
   11 FORMAT(1H1,35X,60HUNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS
     1 OF DOLLARS))
      WRITE(6,12) J
   12 FORMAT(1H0,62X,5HPHASE,I2/)
      WRITE(6,13) (NYEAR(I), I = II,JJ)
   13 FORMAT(1H0,29X,10(6X,I4))
C
C
C  SCALE INPUT VARIABLES
C
      DO 20 I = II,JJ
      A139(I,J) = A139(I,J)/1000.
      P108(I,J) = P108(I,J)/1000.
      P109(I,J) = P109(I,J)/1000.
      P110(I,J) = P110(I,J)/1000.
      P276(I,J) = P276(I,J)/1000.
      P277(I,J) = P277(I,J)/1000.
      P278(I,J) = P278(I,J)/1000.
      P279(I,J) = P279(I,J)/1000.
      P280(I,J) = P280(I,J)/1000.
      P281(I,J) = P281(I,J)/1000.
      P282(I,J) = P282(I,J)/1000.
      P283(I,J) = P283(I,J)/1000.
      P284(I,J) = P284(I,J)/1000.
      P285(I,J) = P285(I,J)/1000.
      P286(I,J) = P286(I,J)/1000.
      P287(I,J) = P287(I,J)/1000.
      P288(I,J) = P288(I,J)/1000.
      P289(I,J) = P289(I,J)/1000.
      P290(I,J) = P290(I,J)/1000.
      P291(I,J) = P291(I,J)/1000.
      P292(I,J) = P292(I,J)/1000.
      P293(I,J) = P293(I,J)/1000.
      P294(I,J) = P294(I,J)/1000.
      P295(I,J) = P295(I,J)/1000.
      P296(I,J) = P296(I,J)/1000.
      P297(I,J) = P297(I,J)/1000.
      P298(I,J) = P298(I,J)/1000.
      P299(I,J) = P299(I,J)/1000.
   20 P340(I,J) = P340(I,J)/1000.
C
      WRITE(6,30) (A139(I,J), I = II,JJ)
   30 FORMAT(10H0RDT AND E,20X,10(3X,F7.0))
      WRITE(6,31)
   31 FORMAT(11H0INVESTMENT)
      WRITE(6,32) (P108(I,J), I = II,JJ)
   32 FORMAT(1H0,2X,17HTRAINING AIRCRAFT,10X,10(3X,F7.0))
      WRITE(6,33) (P279(I,J), I = II,JJ)
   33 FORMAT(1H ,2X,10HSIMULATORS,17X,10(3X,F7.0))
      WRITE(6,34)
   34 FORMAT(1H0,2X,6HSPARES)
      WRITE(6,35) (P109(I,J), I = II,JJ)
   35 FORMAT(1H ,5X,8HAIRCRAFT,16X,10(3X,F7.0))
      WRITE(6,36) (P280(I,J), I = II,JJ)
   36 FORMAT(1H ,5X, 9HSIMULATOR,15X,10(3X,F7.0))
      WRITE(6,37) (P110(I,J), I = II,JJ)
   37 FORMAT(1H0,2X,23HAEROSPACE GROUND EQUIP.,4X,10(3X,F7.0))
      WRITE(6,38) (P281(I,J), I = II,JJ)
   38 FORMAT(1H ,2X,18HTRAINING EQUIPMENT,9X,10(3X,F7.0))
      WRITE(6,39) (P282(I,J), I = II,JJ)
   39 FORMAT(1H ,2X,22HBASE SUPPORT EQUIPMENT,5X,10(3X,F7.0))
      WRITE(6,40) (P283(I,J), I = II,JJ)
   40 FORMAT(1H ,2X,7HRUNWAYS,20X,10(3X,F7.0))
      WRITE(6,41) (P284(I,J), I = II,JJ)
   41 FORMAT(1H ,2X,6HSTOCKS,21X,10(3X,F7.0))
      WRITE(6,42) (P285(I,J), I = II,JJ)
   42 FORMAT(1H ,2X,16HINITIAL TRAINING,11X,10(3X,F7.0))
      WRITE(6,43) (P286(I,J), I = II,JJ)
   43 FORMAT(1H ,2X,14HINITIAL TRAVEL,13X,10(3X,F7.0))
C
      WRITE(6,44)
   44 FORMAT(10H0OPERATING)
      WRITE(6,45) (P340(I,J), I = II,JJ)
   45 FORMAT(1H0,2X,23HRECURRING MODIFICATIONS,4X,10(3X,F7.0))
      WRITE(6,46)
   46 FORMAT(1H0,2X,24HTRAINING A/C MAINTENANCE,3X,10(3X,F7.0))
      WRITE(6,47) (P287(I,J), I = II,JJ)
   47 FORMAT(1H ,5X,17HDEPOT MAINTENANCE,7X,10(3X,F7.0))
      WRITE(6,48) (P288(I,J), I = II,JJ)
   48 FORMAT(1H ,5X,13HBASE MATERIAL,11X,10(3X,F7.0))
      WRITE(6,49) (P289(I,J), I = II,JJ)
   49 FORMAT(1H ,5X,22HCONTRACTED MAINTENANCE,2X,10(3X,F7.0))
      WRITE(6,50) (P290(I,J), I = II,JJ)
   50 FORMAT(1H0,2X,16HTRAINING A/C POL,11X,10(3X,F7.0))
      WRITE(6,51) (P291(I,J), I = II,JJ)
   51 FORMAT(1H ,2X,25HSIMULATOR MAT. AND SERVS.,2X,10(3X,F7.0))
      WRITE(6,52) (P292(I,J), I = II,JJ)
   52 FORMAT(1H ,2X,26HFACILITIES MAT. AND SERVS.,1X,10(3X,F7.0))
      WRITE(6,53) (P293(I,J), I = II,JJ)
   53 FORMAT(1H ,2X,26HCONTRACTED FLYING TRAINING,1X,10(3X,F7.0))
```

```
      WRITE(6,54)
   54 FORMAT(1H0,2X,18HPAY AND ALLOWANCES)
      WRITE(6,55) (P294(I,J), I = II,JJ)
   55 FORMAT(1H ,5X,8HOFFICERS,16X,10(3X,F7.0))
      WRITE(6,56) (P295(I,J), I = II,JJ)
   56 FORMAT(1H ,5X,6HAIRMEN,18X,10(3X,F7.0))
      WRITE(6,57) (P296(I,J), I = II,JJ)
   57 FORMAT(1H ,5X,9HCIVILIANS,15X,10(3X,F7.0))
      WRITE(6,58) (P297(I,J), I = II,JJ)
   58 FORMAT(1H0,2X,8HTRAINING,19X,10(3X,F7.0))
      WRITE(6,59) (P298(I,J), I = II,JJ)
   59 FORMAT(1H ,2X,6HTRAVEL,21X,10(3X,F7.0))
      WRITE(6,60) (P299(I,J), I = II,JJ)
   60 FORMAT(1H ,2X,21HSUPPLIES AND SERVICES,6X,10(3X,F7.0))
C
      WRITE(6,61)
   61 FORMAT(13H0COST BY TYPE)
      WRITE(6,62) (A139(I,J), I = II,JJ)
   62 FORMAT(1H0,2X, 9HRDT AND E,18X,10(3X,F7.0))
      WRITE(6,63) (P276(I,J), I = II,JJ)
   63 FORMAT(1H ,2X,10HINVESTMENT,17X,10(3X,F7.0))
      WRITE(6,64) (P277(I,J), I = II,JJ)
   64 FORMAT(1H ,2X,9HOPERATING,18X,10(3X,F7.0))
      WRITE(6,65) (P278(I,J), I = II,JJ)
   65 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
      IF(JJ.EQ.NYRS) GO TO 100
      JJ = NYRS
      II = 11
      GO TO 10
C
  100 CONTINUE
      RETURN
      END



      SUBROUTINE PRNT10(NYRS,NYEAR,P115,P116,PP300,P301,P302,P303,P304,
     1                 P305,P306,P307,P308,P309,P310,P311,P312,P313,
     2                 P314,P315,P316,P317,P318,P319,P320,P321)
      DIMENSION P115(20),P116(20),PP300(20),P301(20),P302(20),P303(20),
     1          P304(20),P305(20),P306(20),P307(20),P308(20),P309(20),
     2          P310(20),P311(20),P312(20),P313(20),P314(20),P315(20),
     3          P316(20),P317(20),P318(20),P319(20),P320(20),P321(20),
     4          NYEAR(20)
      II = 1
      IF(NYRS.GT.10) GO TO 10
      JJ = NYRS
      GO TO 15
   10 JJ = 10
C
C  SCALE OUTPUT VARIABLES
C
   15 DO 20 I = II,JJ
      PP300(I) = PP300(I)/1000.
      P301(I) = P301(I)/1000.
      P302(I) = P302(I)/1000.
      P303(I) = P303(I)/1000.
      P304(I) = P304(I)/1000.
      P305(I) = P305(I)/1000.
      P306(I) = P306(I)/1000.
      P307(I) = P307(I)/1000.
      P308(I) = P308(I)/1000.
      P309(I) = P309(I)/1000.
      P310(I) = P310(I)/1000.
      P311(I) = P311(I)/1000.
      P312(I) = P312(I)/1000.
      P313(I) = P313(I)/1000.
      P314(I) = P314(I)/1000.
      P315(I) = P315(I)/1000.
      P316(I) = P316(I)/1000.
      P317(I) = P317(I)/1000.
      P318(I) = P318(I)/1000.
      P319(I) = P319(I)/1000.
      P320(I) = P320(I)/1000.
   20 P321(I) = P321(I)/1000.
C
      WRITE(6,30)
   30 FORMAT(1H1,35X,60HUNDERGRADUATE PILOT TRAINING COSTS (IN THOUSANDS
     1 OF DOLLARS)/55X,23HNOT ASSIGNABLE TO PHASE/)
      WRITE(6,31) (NYEAR(I), I = II,JJ)
   31 FORMAT(1H0,29X,10(6X,I4))
C
      WRITE(6,32)
   32 FORMAT(11H0INVESTMENT)
      WRITE(6,33) (P116(I), I = II,JJ)
   33 FORMAT(1H0,2X,16HSUPPORT AIRCRAFT,11X,10(3X,F7.0))
      WRITE(6,34) (P115(I), I = II,JJ)
   34 FORMAT(1H ,2X,23HRESCUE AND RECOVERY A/C,4X,10(3X,F7.0))
      WRITE(6,35) (PP300(I), I = II,JJ)
   35 FORMAT(1H ,2X,22HBASE SUPPORT EQUIPMENT,5X,10(3X,F7.0))
      WRITE(6,36)
   36 FORMAT(1H0,2X,10HFACILITIES)
      WRITE(6,37) (P301(I), I = II,JJ)
   37 FORMAT(1H ,5X,19HNEW BASE CONVERSION,5X,10(3X,F7.0))
      WRITE(6,38) (P302(I), I = II,JJ)
   38 FORMAT(1H ,5X,19HSIMULATOR BUILDINGS,5X,10(3X,F7.0))
      WRITE(6,39) (P303(I), I = II,JJ)
   39 FORMAT(1H ,5X,19HCLASSROOM BUILDINGS,5X,10(3X,F7.0))
      WRITE(6,40) (P304(I), I = II,JJ)
   40 FORMAT(1H ,5X,24HFLY. TRAIN. BASIC BLDGS.,10(3X,F7.0))
      WRITE(6,41) (P305(I), I = II,JJ)
   41 FORMAT(1H ,5X, 7HHOUSING,17X,10(3X,F7.0))
      WRITE(6,42) (P306(I), I = II,JJ)
   42 FORMAT(1H ,5X,5HOTHER,19X,10(3X,F7.0))
      WRITE(6,43) (P307(I), I = II,JJ)
   43 FORMAT(1H0,2X,6HSTOCKS,21X,10(3X,F7.0))
      WRITE(6,44) (P308(I), I = II,JJ)
   44 FORMAT(1H ,2X,16HINITIAL TRAINING,11X,10(3X,F7.0))
      WRITE(6,45) (P309(I), I = II,JJ)
   45 FORMAT(1H ,2X,14HINITIAL TRAVEL,13X,10(3X,F7.0))
C
      WRITE(6,46)
   46 FORMAT(10H0OPERATING)
      WRITE(6,47) (P310(I), I = II,JJ)
   47 FORMAT(1H0,2X,19HSUPPORT A/C O AND M,8X,10(3X,F7.0))
```

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      WRITE(6,48) (P311(I), I = II,JJ)
   48 FORMAT(1H ,2X,19HR AND R A/C O AND M,8X,10(3X,F7.0))
      WRITE(6,49) (P312(I), I = II,JJ)
   49 FORMAT(1H ,2X,26HFACILITIES MAT. AND SERVS.,1X,10(3X,F7.0))
      WRITE(6,50)
   50 FORMAT(1H0,2X,18HPAY AND ALLOWANCES,9X,10(3X,F7.0))
      WRITE(6,51) (P313(I), I = II,JJ)
   51 FORMAT(1H ,5X,8HOFFICERS,16X,10(3X,F7.0))
      WRITE(6,60) (P314(I), I = II,JJ)
   60 FORMAT(1H ,5X,6HAIRMEN,18X,10(3X,F7.0))
      WRITE(6,52) (P315(I), I = II,JJ)
   52 FORMAT(1H ,5X,9HCIVILIANS,15X,10(3X,F7.0))
      WRITE(6,53) (P316(I), I = II,JJ)
   53 FORMAT(1H0,2X,8HTRAINING,19X,10(3X,F7.0))
      WRITE(6,54) (P317(I), I = II,JJ)
   54 FORMAT(1H ,2X,6HTRAVEL,21X,10(3X,F7.0))
      WRITE(6,55) (P318(I), I = II,JJ)
   55 FORMAT(1H ,2X,21HSUPPLIES AND SERVICES,6X,10(3X,F7.0))
      WRITE(6,56)
   56 FORMAT(13H0COST BY TYPE)
      WRITE(6,57) (P319(I), I = II,JJ)
   57 FORMAT(1H0,2X,10HINVESTMENT,17X,10(3X,F7.0))
      WRITE(6,58) (P320(I), I = II,JJ)
   58 FORMAT(1H ,2X,9HOPERATING,18X,10(3X,F7.0))
      WRITE(6,59) (P321(I), I = II,JJ)
   59 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
      IF(JJ.EQ.NYRS) RETURN
      II = 11
      JJ = NYRS
      GO TO 15
C
      END



      SUBROUTINE PRNT11(NYRS,NYEAR,P258,P273,P278,P321,P332,P333,P334,
     1                  P335,NB)
      DIMENSION NYEAR(20),P258(20,15),P273(20),P278(20,3),P321(20),
     1          P332(20),P333(20),P334(20),P335(20)
C
      II = 1
      IF(NYRS.GT.10) GO TO 10
      JJ = NYRS
      GO TO 15
   10 JJ = 10
C
C  SCALE OUTPUT VARIABLES
C
   15 DO 20 I = II,JJ
      P332(I) = P332(I)/1000.
      P333(I) = P333(I)/1000.
      P334(I) = P334(I)/1000.
   20 P335(I) = P335(I)/1000.
C
      WRITE(6,30)
   30 FORMAT(1H1,45X,41HUNDERGRADUATE PILOT TRAINING COST SUMMARY/ 53X,
    1  25H(IN THOUSANDS OF DOLLARS)/)
      WRITE(6,31) (NYEAR(I), I = II,JJ)
   31 FORMAT(1H0,29X,10(6X,I4))
C
      WRITE(6,32)
   32 FORMAT(13H0COST BY TYPE)
      WRITE(6,33) (P333(I), I = II,JJ)
   33 FORMAT(1H0,2X, 9HRDT AND E,18X,10(3X,F7.0))
      WRITE(6,34) (P334(I), I = II,JJ)
   34 FORMAT(1H ,2X,10HINVESTMENT,17X,10(3X,F7.0))
      WRITE(6,35) (P335(I), I = II,JJ)
   35 FORMAT(1H ,2X,9HOPERATING,18X,10(3X,F7.0))
      WRITE(6,36) (P332(I), I = II,JJ)
   36 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
      WRITE(6,37)
   37 FORMAT(14H0COST BY PHASE/)
      DO 39 J = 1,3
      WRITE(6,38) J, (P278(I,J), I = II,JJ)
   38 FORMAT(1H ,2X,5HPHASE,I2,20X,10(3X,F7.0))
   39 CONTINUE
      WRITE(6,40) (P321(I), I = II,JJ)
   40 FORMAT(1H ,2X,23HNOT ASSIGNABLE TO PHASE,4X,10(3X,F7.0))
      WRITE(6,41) (P332(I), I = II,JJ)
   41 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
      WRITE(6,42)
   42 FORMAT(13H0COST BY BASE/)
      DO 44 K = 1,NB
      WRITE(6,43) K, (P258(I,K), I = II,JJ)
   43 FORMAT(1H ,2X,4HBASE,I3,20X,10(3X,F7.0))
   44 CONTINUE
      WRITE(6,45) (P273(I), I = II,JJ)
   45 FORMAT(1H ,2X,22HNOT ASSIGNABLE TO BASE,5X,10(3X,F7.0))
      WRITE(6,46) (P332(I), I = II,JJ)
   46 FORMAT(1H ,2X,5HTOTAL,22X,10(3X,F7.0))
C
      IF(JJ.EQ.NYRS) RETURN
      II = 11
      JJ = NYRS
      GO TO 15
C
      END
```

Appendix C

ILLUSTRATIVE FLOWCHARTS AND DEFINITIONS OF THE VARIABLE NAMES USED IN THE FLOWCHARTS

A list of the variable names used in the flowcharts and their definitions follows. The subscripts used with the variable names are "p," "b," "s," and "y," where

p = phase,
b = base,
s = source,
y = year.

Variable names whose first letter is "A" represent input quantities. They are defined in Appendix A.

Variable Names	Definitions
$P1_{p,y}$	Working days/phase
$P2_{y}$	Working days/year
$P3_{p,y}$	Calendar days/phase for flying
$P4_{p,y}$	Calendar days/phase
$P5_{y}$	Calendar days/course
$P6_{y}$	Course length in years
$P7_{y}$	Entries excluding attrition for all sources
$P8_{y}$	OTS entries excluding attrition
$P9_{s,y}$	Student course attrition rate
$P10_{y}$	OTS entries
$P11_{y}$	OTS student course attrition rate
$P16_{p,y}$	Phase length in years
$P18_{p,y}$	Cumulative phase length in years
$P189_{s,y}$	Percentage of students not attrited
$P190_{y}$	Fixed entries excluding attrition
$P191_{y}$	One minus course attrition rate for OTS
$P206_{p,y}$	Flying training days/phase constrained by flying
$P207_{p,y}$	Flying training days/phase constrained by all training

Variable Names	Definitions
$P235_{y}$	Total entries for year
$P236_{y}$	Total flying hours for year
$P237_{y}$	Total simulator hours for year
$P238_{y}$	Total academic training hours for year
$P239_{y}$	Total officer training hours for year
$P12_{p,y}$	Average attrition for all sources
$P13_{p,y}$	Attrition rate averaged over year entering
$P14_{p,y}$	Phase graduates by year of UPT graduation
$P15_{p,y}$	Entry--graduate average
$P192_{p,y}$	Attrited students for all fixed sources
$P193_{p,y}$	Entries for all fixed sources
$P194_{p,s,y}$	Phase entries percent of phase I entries
$P195_{p,y}$	Phase entries percent of phase I entries--OTS
$P17_{p,y}$	Student load/phase
$P25_{y}$	Student load/year
$P26_{p,y}$	Phase load percent of total
$P208_{y}$	Student load + surge by year
$P209_{p,y}$	Student load + surge by year and phase
$P18A_{p,b,y}$	Runways
$P19_{p,b,y}$	Flying areas
$P20_{p,b,y}$	Effective launch interval in minutes (runway constrained)
$P21_{p,b,y}$	Sortie per flying day capability
$P22_{p,b,y}$	Student sorties per training day
$P23_{p,b,y}$	Student daylight sortie per training day/student required
$P24_{p,b,y}$	Maximum student load considering this phase
$P27_{p,b,y}$	Course student load supportable by phase
$P28_{b,y}$	Maximum student load considering all phases.
$P29_{y}$	Maximum student load per year
$P30_{y}$	UPT bases
$P31_{p,b,y}$	Effective launch interval in minutes (airspace constrained)
$P32_{p,b,y}$	Effective launch interval in minutes
$P33_{p,b,y}$	Student load by phase, base, year
P34	Preference rank (0 through 10)

Variable Names	Definitions
P35	Base recomputation indicator
$P36_{p,b,y}$	Additional runway calculated
$P37_{p,b,y}$	Additional flying areas calculated
$P103_{b,y}$	Student load for all phases
$P205_{p,y}$	Maximum student load/year by phase
$PP35_{b,y}$	1 if new base b is thruput; 2 if new base b is added by model; 0 if base b is not new.
$P38_{p,b,y}$	Instructor pilots required
$P39_{p,b,y}$	Pilot training squadron officers assigned by phase
$P40_{b,y}$	Pilot training squadron officers assigned--no phase
$P41_{b,y}$	Pilot training squadron airmen assigned--no phase
$P42_{b,y}$	Pilot training squadron civilians--no phase
$P43_{p,b,y}$	Student squadron officers assigned by phase
$P44_{p,b,y}$	Student squadron airmen assigned by phase
$P45_{p,b,y}$	Student squadron civilians
$P46_{p,b,y}$	Student squadron personnel by phase
$P47_{b,y}$	Student squadron officers assigned--no phase
$P48_{b,y}$	Student squadron airmen assigned--no phase
$P49_{b,y}$	Student squadron civilians--no phase
$P50_{p,b,y}$	Officers less students by phase
$P51_{p,b,y}$	Airmen by phase
$P52_{p,b,y}$	Civilians by phase
$P53_{b,y}$	Officers less students--no phase
$P54_{b,y}$	Airmen--no phase
$P55_{b,y}$	Civilians--no phase
$P56_{p,b,y}$	Simulator instructors by phase
$P57_{b,y}$	Simulator officers assigned--no phase
$P58_{b,y}$	Simulator airmen assigned--no phase
$P59_{b,y}$	Simulator civilians--no phase
$P210_{b,y}$	Pilot training squadron personnel
$P211_{b,y}$	Student squadron personnel
$P212_{b,y}$	Simulator branch personnel

Variable Names	Definitions
$P342_{p,b,y}$	Simulator officers assigned by phase
$P343_{p,b,y}$	Simulator airmen assigned by phase
$P60_{p,b,y}$	Flying hours per year
$P61_{p,b,y}$	Field maintenance personnel by phase
$P62_{p,b,y}$	Field maintenance officers assigned by phase
$P63_{p,b,y}$	Field maintenance airmen assigned by phase
$P64_{p,b,y}$	Field maintenance civilians by phase
$P65_{p,b,y}$	Organizational maintenance personnel by phase
$P66_{p,b,y}$	Organizational maintenance officers assigned by phase
$P67_{p,b,y}$	Organizational maintenance airmen assigned by phase
$P68_{p,b,y}$	Organizational maintenance civilians by phase
$P69_{p,b,y}$	Pilot training wing personnel by phase
$P70_{p,b,y}$	Pilot training wing officers assigned by phase
$P71_{p,b,y}$	Pilot training wing airmen assigned by phase
$P72_{p,b,y}$	Pilot training wing civilians by phase
$P73_{b,y}$	Other pilot training wing personnel
$P74_{b,y}$	Pilot training wing officers--no phase
$P75_{b,y}$	Pilot training wing airmen--no phase
$P76_{b,y}$	Pilot training wing civilians--no phase
$P90_{p,y}$	Flying hours for all bases
$P176_{p,b,y}$	Operations, maintenance, and admn personnel--by phase
$P177_{b,y}$	Operations, maintenance, and admn personnel--no phase
$P199_{b,y}$	Field maintenance officers assigned--no phase
$P200_{b,y}$	Field maintenance airmen assigned--no phase
$P201_{b,y}$	Field maintenance civilians assigned--no phase
$P202_{b,y}$	Organizational maintenance officers assigned--no phase
$P203_{b,y}$	Organizational maintenance airmen assigned--no phase
$P204_{b,y}$	Organizational maintenance civilians assigned--no phase
$P213_{b,y}$	Field maintenance personnel
$P214_{b,y}$	Organizational maintenance personnel
$P215_{b,y}$	Pilot training wing personnel
$P77_{b,y}$	Supply squadron officers assigned--no phase
$P78_{b,y}$	Supply squadron airmen assigned--no phase
$P79_{b,y}$	Supply squadron civilians assigned--no phase

Variable Names	Definitions
$P80_{b,y}$	Field training squadron officers assigned--no phase
$P81_{b,y}$	Field training squadron airmen assigned--no phase
$P82_{b,y}$	Field training squadron civilians assigned--no phase
$P83_{b,y}$	Support squadron officers assigned--no phase
$P84_{b,y}$	Support squadron airmen assigned--no phase
$P85_{b,y}$	Support squadron civilians assigned--no phase
$P86_{b,y}$	Support tenant officers assigned--no phase
$P87_{b,y}$	Support tenant airmen assigned--no phase
$P88_{b,y}$	Support tenant civilians assigned--no phase
$P216_{b,y}$	Supply personnel
$P217_{b,y}$	Field training personnel
$P218_{b,y}$	Support personnel
$P219_{b,y}$	Support tenants
$P171_{p,b,y}$	Air base group personnel by phase
$P172_{p,b,y}$	Air base group officers by phase
$P173_{p,b,y}$	Air base group airmen by phase
$P174_{p,b,y}$	Air base group civilians by phase
$P175_{p,b,y}$	Hospital (dispensary) personnel by phase
$P176_{p,b,y}$	Operations, maintenance, and admn personnel by phase
$P177_{b,y}$	Operations, maintenance, and admn personnel--no phase
$P178_{p,b,y}$	Hospital (dispensary) officers by phase
$P179_{p,b,y}$	Hospital (dispensary) airmen by phase
$P180_{p,b,y}$	Hospital (dispensary) civilians by phase
$P181_{b,y}$	Air base group personnel--no phase
$P182_{b,y}$	Air base group officers--no phase
$P183_{b,y}$	Air base group airmen--no phase
$P184_{b,y}$	Air base group civilians--no phase
$P185_{b,y}$	Hospital (dispensary) personnel--no phase
$P186_{b,y}$	Hospital (dispensary) officers--no phase
$P187_{b,y}$	Hospital (dispensary) airmen--no phase
$P188_{b,y}$	Hospital (dispensary) civilians--no phase
$P220_{b,y}$	Air base group personnel
$P221_{b,y}$	Hospital (dispensary) personnel

Variable Names	Definitions
$P223_{b,y}$	Officers by base
$P224_{b,y}$	Airmen by base
$P225_{b,y}$	Civilians by base
$P226_{b,y}$	Personnel by base
$P227_{p,b,y}$	Personnel by phase and base
$P228_{b,y}$	Personnel by base--no phase
$P229_{b,y}$	Students plus permanent party
$P89_{p,b,y}$	Aircraft required
$P91_{p,y}$	Aircraft available before model procurement
$P92_{p,y}$	Aircraft procured by model
$P93_{p,b,y}$	Simulators required
$P94_{p,b,y}$	Simulators available before model procurement
$P95_{p,b,y}$	Simulators procured by model
$P96_{p,y}$	Aircraft required for all bases
$P300_{p,y}$	Aircraft attrition losses
$P230_{p,y}$	Aircraft available beginning of year
$P231_{p,b,y}$	Simulators available beginning of year
$P234_{b,y}$	Rescue and recovery aircraft
$P167_{b,y}$	Support aircraft
$P97_{b,y}$	Simulator area required
$P98_{b,y}$	Simulator area available before model addition
$P99_{b,y}$	Simulator area added by model
$P100_{b,y}$	Classroom area required
$P101_{b,y}$	Classroom area available before model additions
$P102_{b,y}$	Classroom area added by model
$P104_{b,y}$	Square feet of flying training basic building
$P105_{b,y}$	Airmen dormitories
$P106_{b,y}$	Bachelor officer quarters
$P107_{b,y}$	Family housing units
$P232_{b,y}$	Simulator area available beginning of year
$P233_{b,y}$	Classroom area available beginning of year
$P108_{p,y}$	Aircraft investment cost
$P109_{p,y}$	Aircraft spares investment cost
$P110_{p,y}$	Aircraft AGE investment cost

Variable Names	Definitions
$P112_{p,b,y}$	Simulator spares investment cost
$P115_{y}$	Rescue and recovery aircraft investment cost
$P116_{y}$	Support aircraft investment cost
$P168_{p,y}$	Cumulative aircraft procured through last year
$P170_{p,b,y}$	Simulator investment cost
$P340_{p,y}$	Recurring modifications cost
$P118_{p,b,y}$	Increase in military by phase
$P119_{p,b,y}$	Increase in officers by phase
$P120_{p,b,y}$	Training investment cost for officers less students
$P121_{p,b,y}$	Travel investment cost for officers less students
$P122_{p,b,y}$	Increase in airmen
$P123_{p,b,y}$	Training investment cost for airmen
$P124_{p,b,y}$	Travel investment cost for airmen
$P113_{p,b,y}$	Base support equipment investment cost
$P114_{p,b,y}$	Training equipment investment cost
$P117_{p,b,y}$	Stocks investment cost
$P344_{p,b}$	Maximum military over all years
$P345_{p,b}$	Maximum students over all years
$P346_{b}$	Maximum officers plus airmen over all years
$P125_{b,y}$	Increase in military--no phase
$P126_{b,y}$	Base support equipment investment cost--no phase
$P127_{b,y}$	Stocks investment cost--no phase
$P128_{b,y}$	Increase in officers--no phase
$P129_{b,y}$	Increase in airmen--no phase
$P130_{b,y}$	Training investment cost for officers--no phase
$P131_{b,y}$	Travel investment cost for officers--no phase
$P132_{b,y}$	Training investment cost for airmen--no phase
$P133_{b,y}$	Travel investment cost for airmen--no phase
$P134_{p,b,y}$	Runway investment cost
$P135_{b,y}$	Additional UPT base investment cost
$P136_{b,y}$	Simulator area investment cost
$P137_{b,y}$	Classroom area investment cost
$P138_{p,b,y}$	Officer pay and allowance by phase

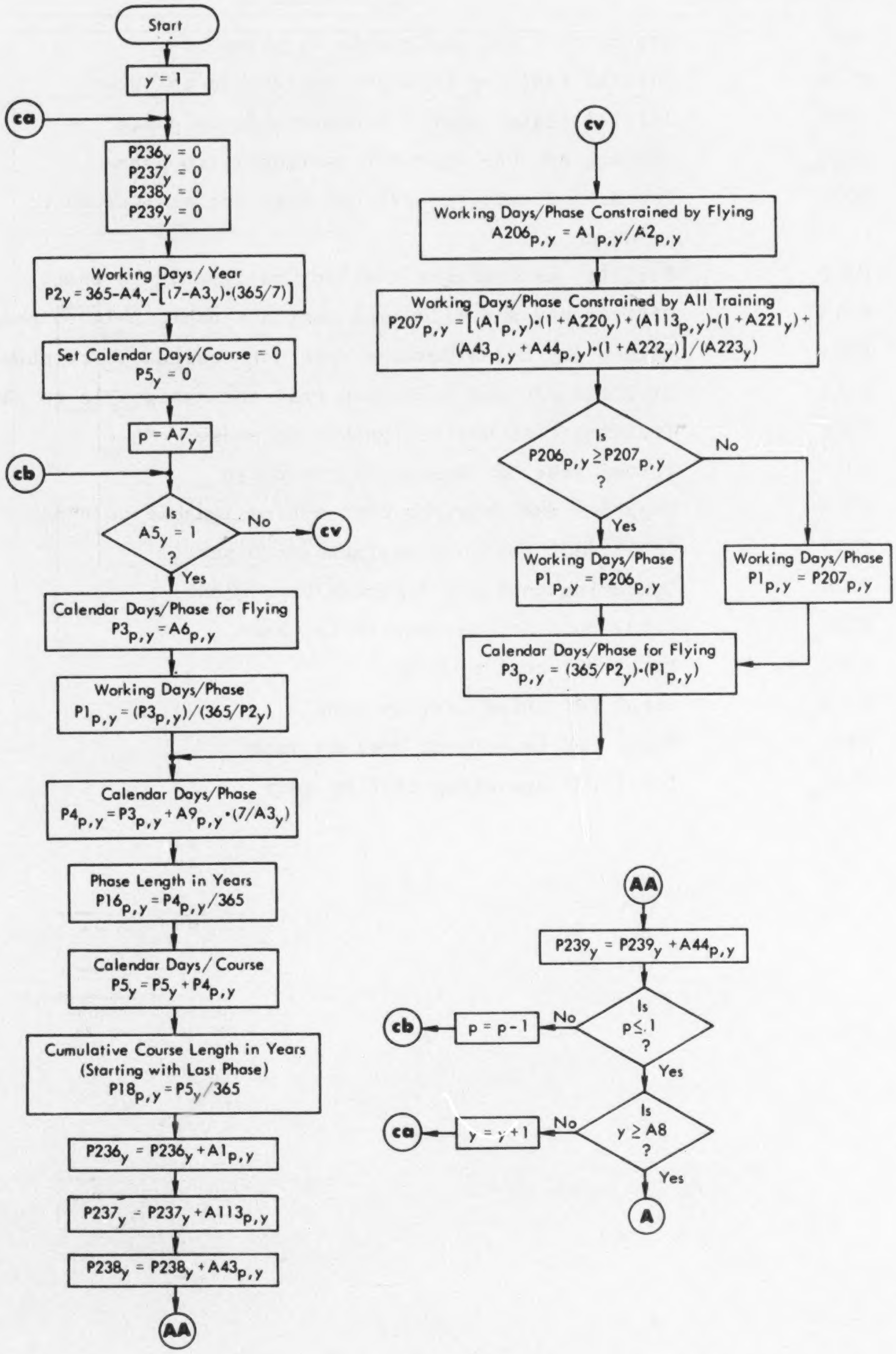
Variable Names	Definitions
$P139_{p,b,y}$	Airmen pay and allowance by phase
$P140_{p,b,y}$	Civilian pay and allowance by phase
$P141_{p,b,y}$	Annual training cost for officers by phase
$P142_{p,b,y}$	Annual travel cost for officers by phase
$P143_{p,b,y}$	Annual training cost for airmen by phase
$P144_{p,b,y}$	Annual travel cost for airmen by phase
$P145_{p,b,y}$	Annual travel cost for students by phase
$P146_{p,b,y}$	Facility O&M operating cost by phase
$P147_{p,b,y}$	Supplies and services cost by phase
$P148_{b,y}$	Officer pay and allowance--no phase
$P149_{b,y}$	Airmen pay and allowance--no phase
$P150_{b,y}$	Civilian pay and allowance--no phase
$P151_{b,y}$	Annual training cost for officers--no phase
$P152_{b,y}$	Annual travel cost for officers--no phase
$P153_{b,y}$	Annual travel cost for students--no phase
$P154_{b,y}$	Annual training cost for airmen--no phase
$P155_{b,y}$	Annual travel cost for airmen--no phase
$P156_{b,y}$	Facilities O&M cost--no phase
$P157_{b,y}$	Supplies and services cost--no phase
$P158_{p,b,y}$	Contract training cost
$P159_{p,b,y}$	Depot maintenance cost
$P160_{p,b,y}$	Base material cost
$P161_{p,b,y}$	POL cost
$P162_{p,b,y}$	Simulator O&M cost
$P166_{b,y}$	Flying hours/year for support aircraft
$P198_{p,b,y}$	Contract maintenance cost
$P260_{b,y}$	Support aircraft O&M cost
$P261_{b,y}$	Rescue and recovery aircraft O&M cost
$P262_{b,y}$	Flying hours/year for rescue and recovery aircraft
$P236_{b,y}$	Simulator investment cost by base
$P237_{b,y}$	Simulator spares cost by base
$P238_{b,y}$	Training equipment cost by base
$P239_{b,y}$	Base support equipment cost by base
$P240_{b,y}$	Runways cost by base

Variable Names	Definitions
$P241_{b,y}$	Stocks cost by base
$P242_{b,y}$	Initial training cost by base
$P243_{b,y}$	Initial travel cost by base
$P244_{b,y}$	Depot maintenance cost by base
$P245_{b,y}$	Base material cost by base
$P246_{b,y}$	Contracted maintenance cost by base
$P247_{b,y}$	POL cost by base
$P248_{b,y}$	Simulator maintenance cost by base
$P249_{b,y}$	Facility maintenance cost by base
$P250_{b,y}$	Contracted flying training cost by base
$P251_{b,y}$	Officer pay and allowance cost by base
$P252_{b,y}$	Airmen pay and allowance cost by base
$P253_{b,y}$	Civilian pay cost by base
$P254_{b,y}$	Training cost by base
$P255_{b,y}$	Travel cost by base
$P256_{b,y}$	Supplies and services cost by base
$P257_{p,b,y}$	Total costs by phase
$P258_{b,y}$	Total cost assignable to phase plus total cost not assignable to phase
$P259_{b,y}$	Total cost not assignable to phase
$P266_{y}$	Training aircraft cost not assignable to base
$P267_{y}$	Training aircraft spares not assignable to base
$P268_{y}$	Aerospace ground equipment not assignable to base
$P269_{y}$	RDT&E cost not assignable to base
$P341_{y}$	Recurring modifications cost not assignable to base
$P263_{b,y}$	Total investment cost by base
$P264_{b,y}$	Total operating cost by base
$P265_{b,y}$	Total housing cost by base
$P270_{p,y}$	Total cost by phase not assignable to base
$P271_{y}$	Total cost not assignable to base or phase
$P272_{y}$	Total cost not assignable to base
$P273_{y}$	Total cost not assignable to base or phase plus total cost not assignable to base

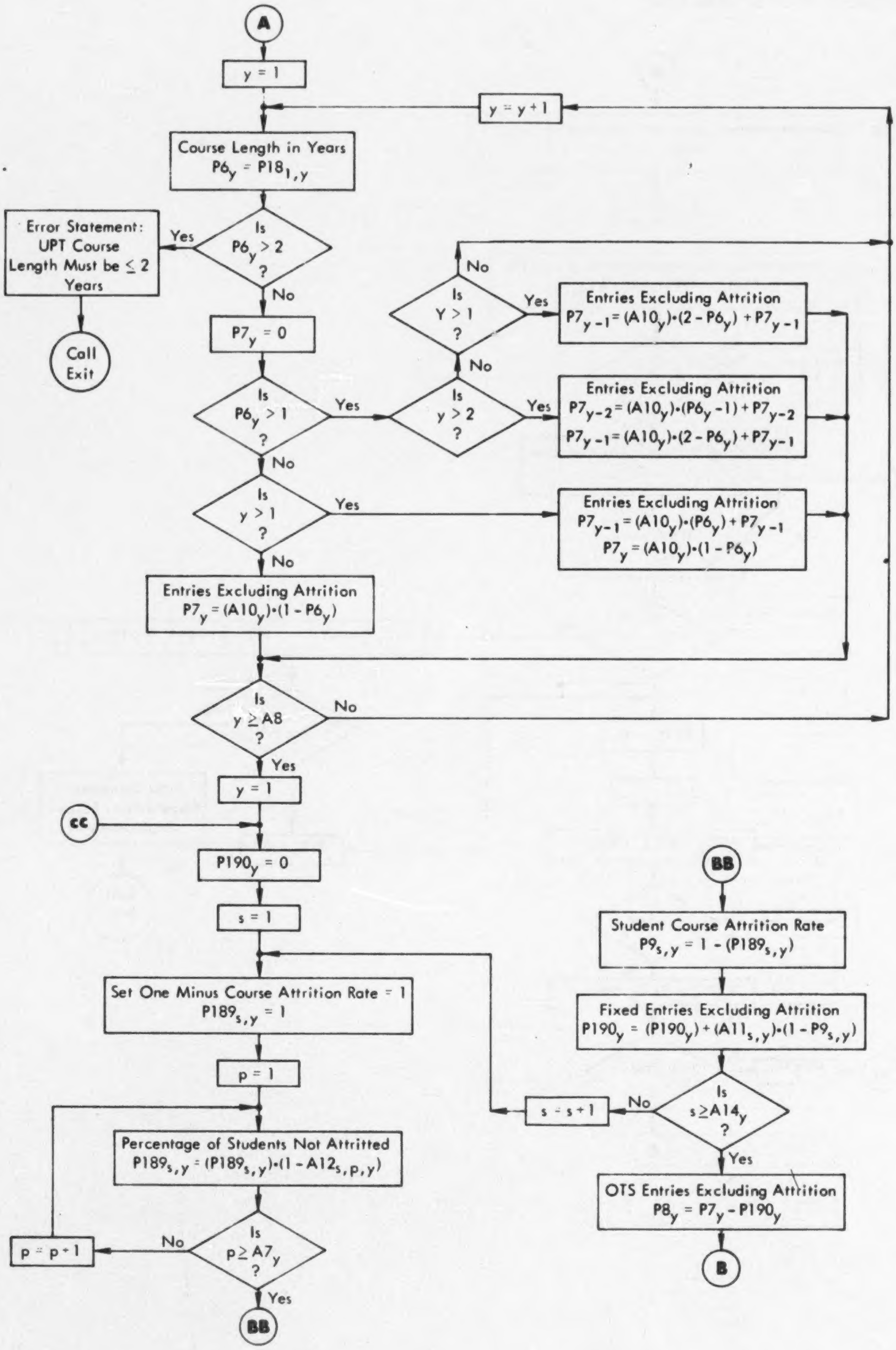
Variable Names	Definitions
$P274_{y}$	Investment cost not assignable to base or phase
$P276_{p,y}$	Investment cost by phase
$P277_{p,y}$	Operating cost by phase
$P278_{p,y}$	Total cost by phase
$P279_{p,y}$	Simulator cost by phase
$P280_{p,y}$	Simulator spares cost by phase
$P281_{p,y}$	Training equipment cost by phase
$P282_{p,y}$	Base support equipment cost by phase
$P283_{p,y}$	Runways cost by phase
$P284_{p,y}$	Stocks cost by phase
$P285_{p,y}$	Initial training cost by phase
$P286_{p,y}$	Initial travel cost by phase
$P287_{p,y}$	Depot maintenance cost by phase
$P288_{p,y}$	Base material cost by phase
$P289_{p,y}$	Contracted maintenance cost by phase
$P290_{p,y}$	POL cost by phase
$P291_{p,y}$	Simulator maintenance cost by phase
$P292_{p,y}$	Facility maintenance cost by phase
$P293_{p,y}$	Contracted flying training cost by phase
$P294_{p,y}$	Officer pay and allowance cost by phase
$P295_{p,y}$	Airmen pay and allowance cost by phase
$P296_{p,y}$	Civilian pay cost by phase
$P297_{p,y}$	Training cost by phase
$P298_{p,y}$	Travel cost by phase
$P299_{p,y}$	Supplies and service cost by phase
$PP300_{y}$	Base support equipment cost not assignable to phase
$P301_{y}$	New base conversion cost not assignable to phase
$P302_{y}$	Simulator building cost not assignable to phase
$P303_{y}$	Classroom building cost not assignable to phase
$P304_{y}$	Flying training basic building cost not assignable to phase
$P305_{y}$	Housing cost not assignable to phase
$P306_{y}$	Other cost not assignable to phase

Variable Names	Definitions
307_y	Stocks cost not assignable to phase
$P308_y$	Initial training cost not assignable to phase
$P309_y$	Initial travel cost not assignable to phase
$P310_y$	Support A/C O&M cost not assignable to phase
$P311_y$	Rescue and recovery A/C O&M cost not assignable to phase
$P312_y$	Facility maintenance cost not assignable to phase
$P313_y$	Officer pay and allowance cost not assignable to phase
$P314_y$	Airmen pay and allowance cost not assignable to phase
$P315_y$	Civilian pay and allowance cost not assignable to phase
$P316_y$	Training cost not assignable to phase
$P317_y$	Travel cost not assignable to phase
$P318_y$	Supplies and Services cost not assignable to phase
$P319_y$	Investment cost not assignable to phase
$P320_y$	Operating cost not assignable to phase
$P321_y$	Total cost not assignable to phase
$P332_y$	Total UPT cost by year
$P333_y$	Total UPT RDT&E cost by year
$P334_y$	Total UPT investment cost by year
$P335_y$	Total UPT operating cost by year

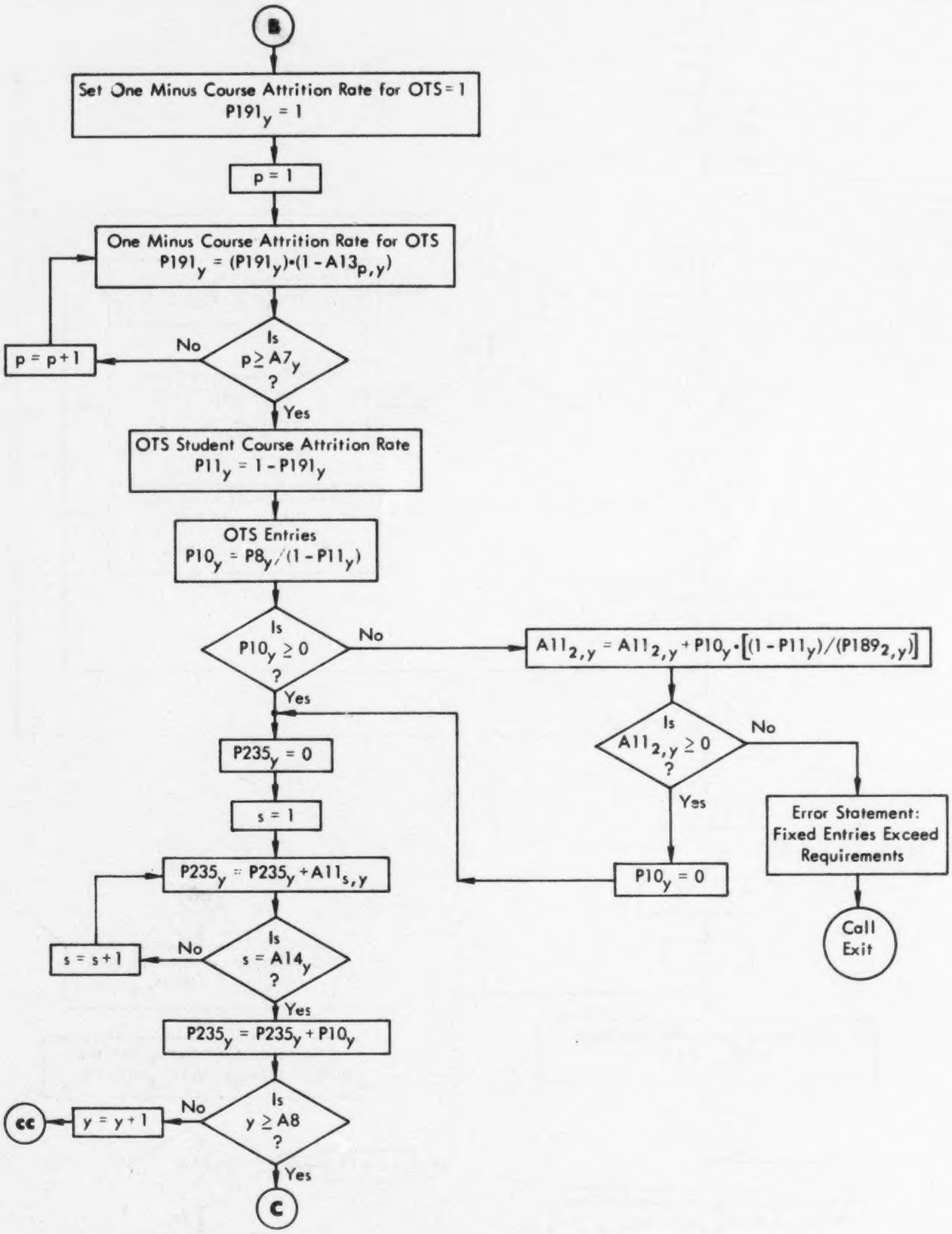
SEGMENT ONE: COURSE LENGTH


Start
y = 1
ca
P236y = 0
P237y = 0
P238y = 0
P239y = 0
Working Days/Year
P2y = 365-A4y-[(7-A3y)•(365/7)]
Set Calendar Days/Course = 0
P5y = 0
p = A7y
cb
Is A5y = 1 ?
No
cv
Yes
Calendar Days/Phase for Flying
P3p,y = A6p,y
Working Days/Phase
P1p,y = (P3p,y)/(365/P2y)
Calendar Days/Phase
P4p,y = P3p,y + A9p,y•(7/A3y)
Phase Length in Years
P16p,y = P4p,y/365
Calendar Days/Course
P5y = P5y + P4p,y
Cumulative Course Length in Years
(Starting with Last Phase)
P18p,y = P5y/365
P236y = P236y + A1p,y
P237y = P237y + A113p,y
P238y = P238y + A43p,y
AA
cv
Working Days/Phase Constrained by Flying
A206p,y = A1p,y/A2p,y
Working Days/Phase Constrained by All Training
P207p,y = [(A1p,y)•(1 + A220y) + (A113p,y)•(1 + A221y) + (A43p,y + A44p,y)•(1 + A222y)]/(A223y)
Is P206p,y ≥ P207p,y ?
No
Yes
Working Days/Phase
P1p,y = P206p,y
Working Days/Phase
P1p,y = P207p,y
Calendar Days/Phase for Flying
P3p,y = (365/P2y)•(P1p,y)
AA
P239y = P239y + A44p,y
Is p ≤ 1 ?
No
p = p - 1
cb
Yes
Is y ≥ A8 ?
No
y = y + 1
ca
Yes
A

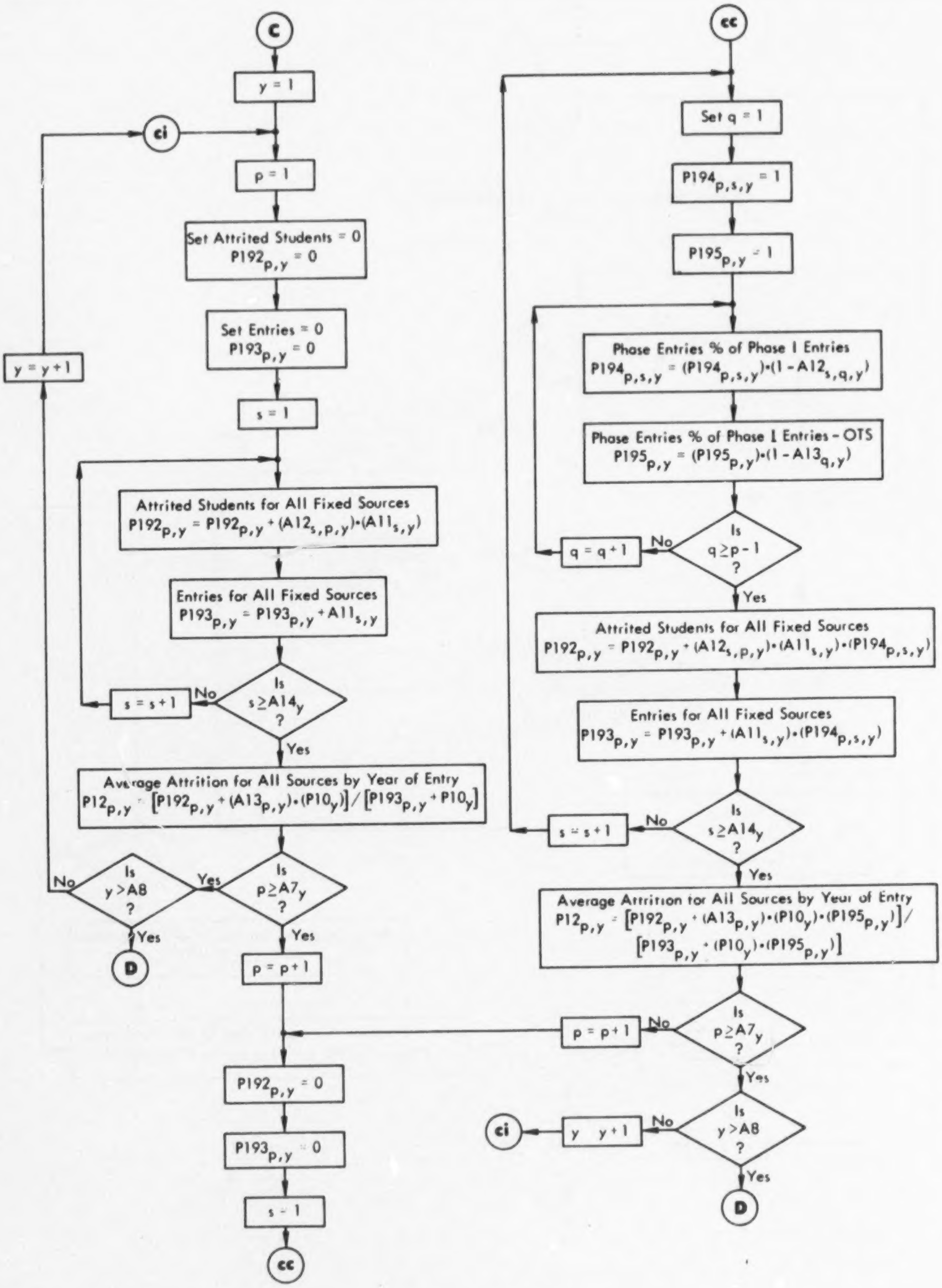
SEGMENT TWO: STUDENT LOAD

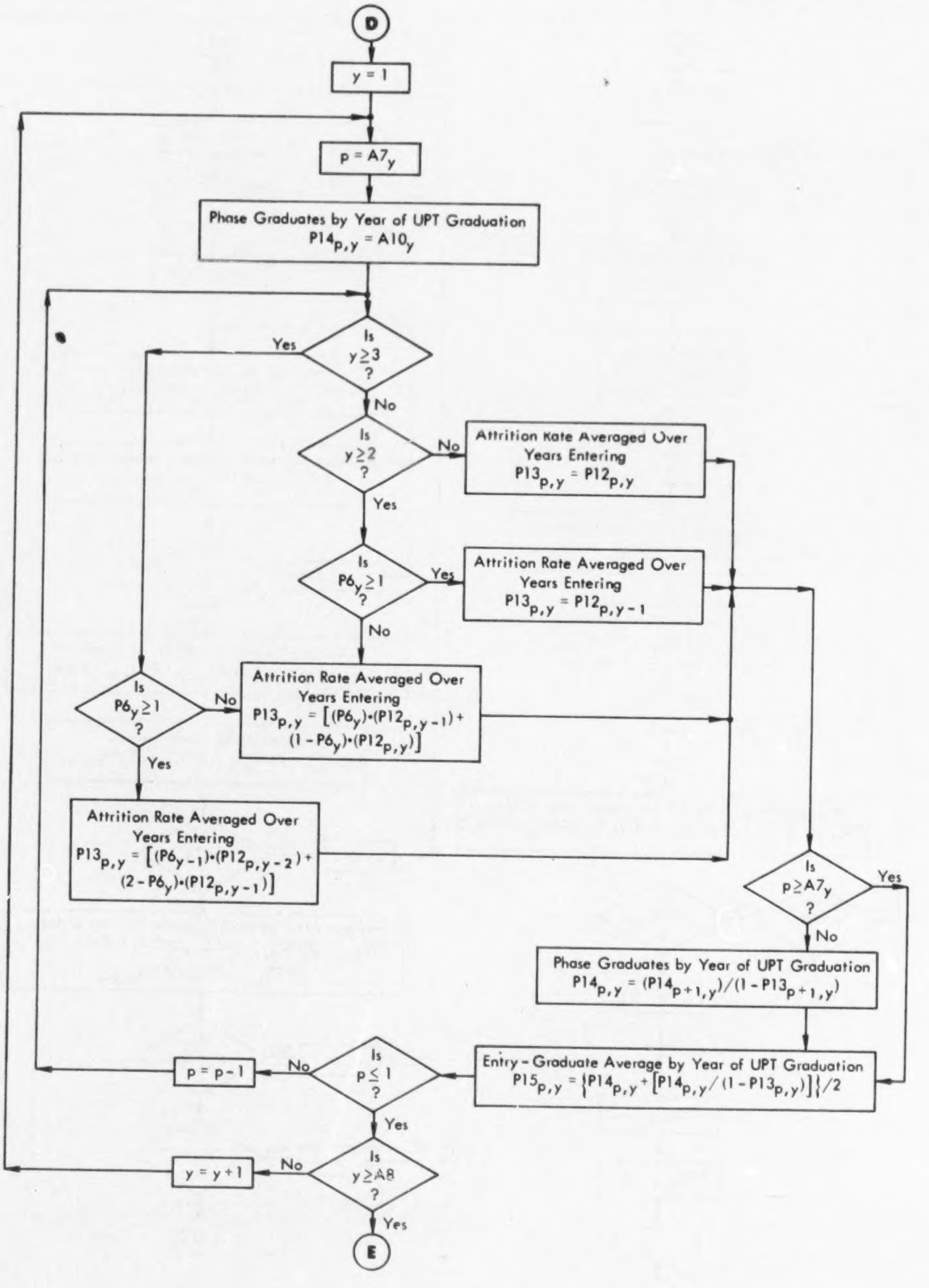

A
$y = 1$
$y = y + 1$
Course Length in Years
$P6_y = P18_{1,y}$
Is $P6_y > 2$?
Yes
No
Error Statement: UPT Course Length Must be ≤ 2 Years
Call Exit
$P7_y = 0$
Is $Y > 1$?
No
Yes
Entries Excluding Attrition
$P7_{y-1} = (A10_y) \cdot (2 - P6_y) + P7_{y-1}$
Is $P6_y > 1$?
Yes
Is $y > 2$?
No
Yes
Entries Excluding Attrition
$P7_{y-2} = (A10_y) \cdot (P6_y - 1) + P7_{y-2}$
$P7_{y-1} = (A10_y) \cdot (2 - P6_y) + P7_{y-1}$
No
Is $y > 1$?
Yes
Entries Excluding Attrition
$P7_{y-1} = (A10_y) \cdot (P6_y) + P7_{y-1}$
$P7_y = (A10_y) \cdot (1 - P6_y)$
No
Entries Excluding Attrition
$P7_y = (A10_y) \cdot (1 - P6_y)$
Is $y \geq A8$?
No
Yes
$y = 1$
CC
$P190_y = 0$
$s = 1$
Set One Minus Course Attrition Rate = 1
$P189_{s,y} = 1$
$p = 1$
Percentage of Students Not Attritted
$P189_{s,y} = (P189_{s,y}) \cdot (1 - A12_{s,p,y})$
Is $p \geq A7_y$?
No
$p = p + 1$
Yes
BB
BB
Student Course Attrition Rate
$P9_{s,y} = 1 - (P189_{s,y})$
Fixed Entries Excluding Attrition
$P190_y = (P190_y) + (A11_{s,y}) \cdot (1 - P9_{s,y})$
Is $s \geq A14_y$?
No
$s = s + 1$
Yes
OTS Entries Excluding Attrition
$P8_y = P7_y - P190_y$
B

SEGMENT TWO: STUDENT LOAD

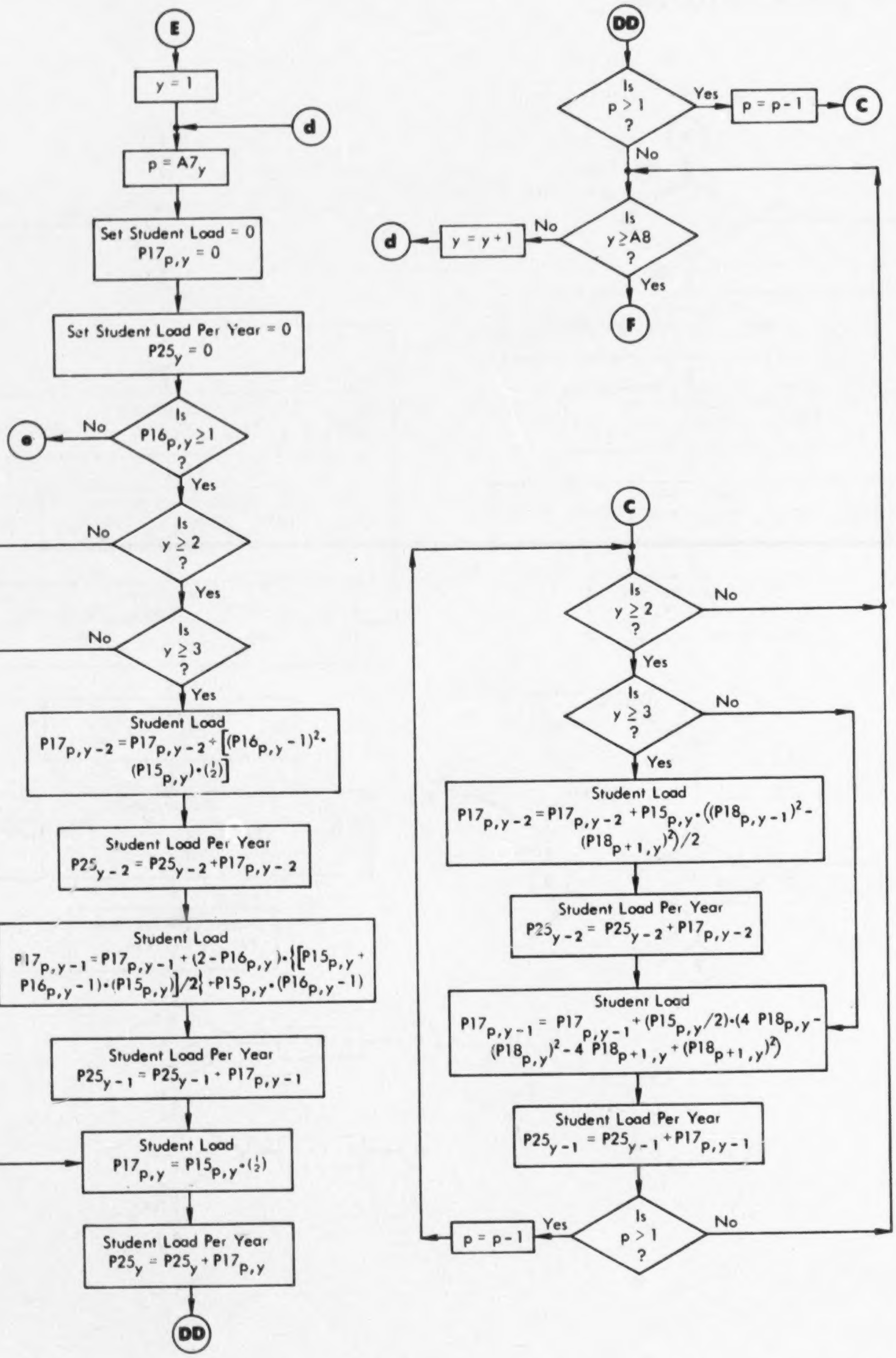

B
Set One Minus Course Attrition Rate for OTS = 1
P191y = 1
p = 1
One Minus Course Attrition Rate for OTS
P191y = (P191y)•(1 - A13p,y)
Is p ≥ A7y ?
No
p = p+1
Yes
OTS Student Course Attrition Rate
P11y = 1 - P191y
OTS Entries
P10y = P8y/(1 - P11y)
Is P10y ≥ 0 ?
No
A112,y = A112,y + P10y • [(1 - P11y)/(P1892,y)]
Is A112,y ≥ 0 ?
No
Error Statement: Fixed Entries Exceed Requirements
Call Exit
Yes
P10y = 0
Yes
P235y = 0
s = 1
P235y = P235y + A11s,y
Is s = A14y ?
No
s = s+1
Yes
P235y = P235y + P10y
Is y ≥ A8 ?
No
y = y+1
CC
Yes
C

SEGMENT TWO: STUDENT LOAD

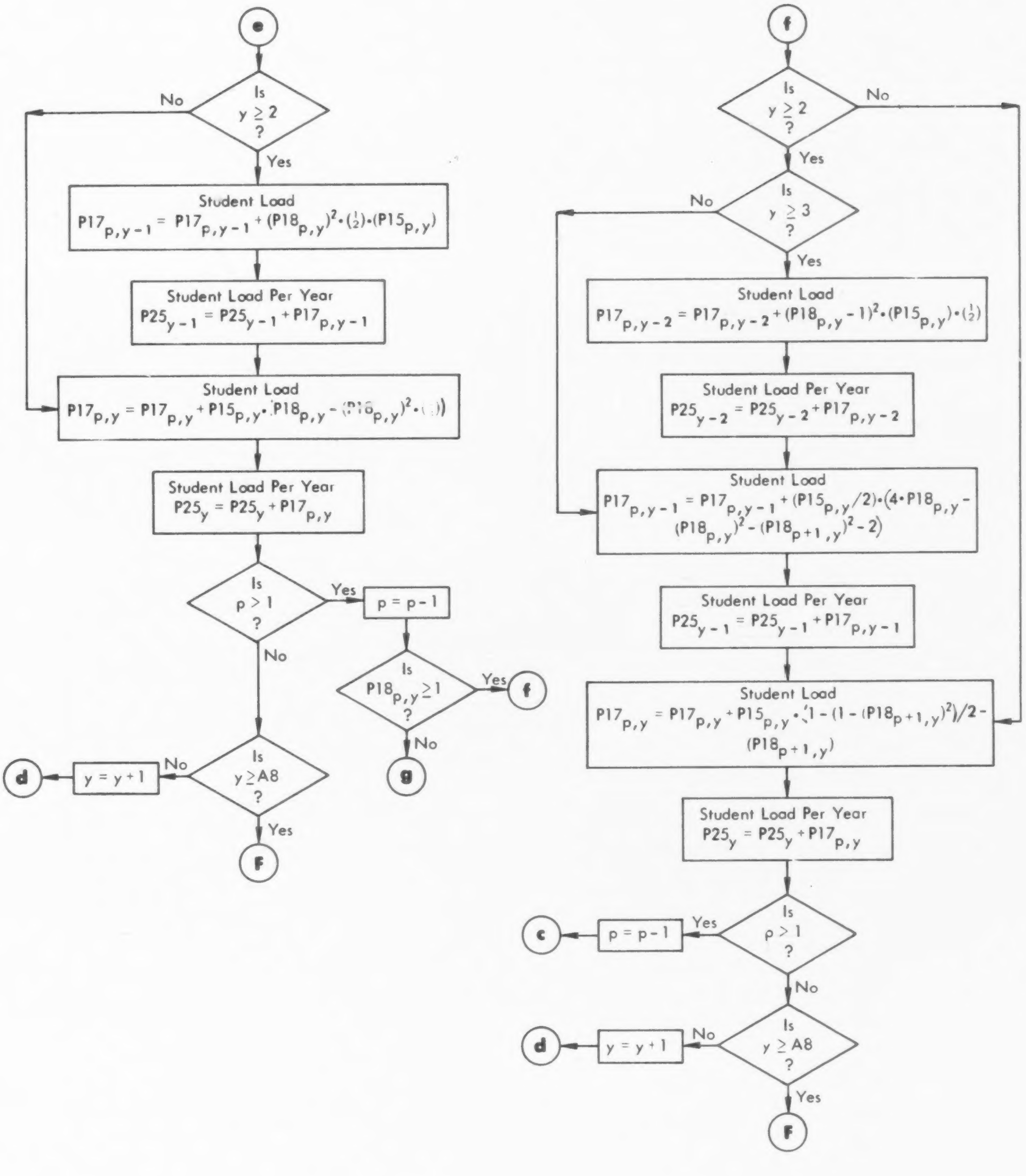

C
y = 1
ci
p = 1
Set Attrited Students = 0
$P192_{p,y} = 0$
Set Entries = 0
$P193_{p,y} = 0$
s = 1
Attrited Students for All Fixed Sources
$P192_{p,y} = P192_{p,y} + (A12_{s,p,y})\cdot(A11_{s,y})$
Entries for All Fixed Sources
$P193_{p,y} = P193_{p,y} + A11_{s,y}$
Is $s \geq A14_y$?
No
s = s + 1
Yes
Average Attrition for All Sources by Year of Entry
$P12_{p,y} = [P192_{p,y} + (A13_{p,y})\cdot(P10_y)] / [P193_{p,y} + P10_y]$
Is $p \geq A7_y$?
Yes
Is y > A8 ?
No
y = y + 1
Yes
D
Yes
p = p + 1
$P192_{p,y} = 0$
$P193_{p,y} = 0$
s = 1
cc
cc
Set q = 1
$P194_{p,s,y} = 1$
$P195_{p,y} = 1$
Phase Entries % of Phase I Entries
$P194_{p,s,y} = (P194_{p,s,y})\cdot(1 - A12_{s,q,y})$
Phase Entries % of Phase I Entries - OTS
$P195_{p,y} = (P195_{p,y})\cdot(1 - A13_{q,y})$
Is $q \geq p - 1$?
No
q = q + 1
Yes
Attrited Students for All Fixed Sources
$P192_{p,y} = P192_{p,y} + (A12_{s,p,y})\cdot(A11_{s,y})\cdot(P194_{p,s,y})$
Entries for All Fixed Sources
$P193_{p,y} = P193_{p,y} + (A11_{s,y})\cdot(P194_{p,s,y})$
Is $s \geq A14_y$?
No
s = s + 1
Yes
Average Attrition for All Sources by Year of Entry
$P12_{p,y} = [P192_{p,y} + (A13_{p,y})\cdot(P10_y)\cdot(P195_{p,y})] / [P193_{p,y} + (P10_y)\cdot(P195_{p,y})]$
Is $p \geq A7_y$?
No
p = p + 1
Yes
Is y > A8 ?
No
y = y + 1
ci
Yes
D


D
$y = 1$
$p = A7_y$
Phase Graduates by Year of UPT Graduation
$P14_{p,y} = A10_y$
Is $y \geq 3$?
Yes
No
Is $y \geq 2$?
No
Attrition Rate Averaged Over Years Entering
$P13_{p,y} = P12_{p,y}$
Yes
Is $P6_y \geq 1$?
Yes
Attrition Rate Averaged Over Years Entering
$P13_{p,y} = P12_{p,y-1}$
No
Is $P6_y \geq 1$?
No
Attrition Rate Averaged Over Years Entering
$P13_{p,y} = [(P6_y) \cdot (P12_{p,y-1}) + (1 - P6_y) \cdot (P12_{p,y})]$
Yes
Attrition Rate Averaged Over Years Entering
$P13_{p,y} = [(P6_{y-1}) \cdot (P12_{p,y-2}) + (2 - P6_y) \cdot (P12_{p,y-1})]$
Is $p \geq A7_y$?
Yes
No
Phase Graduates by Year of UPT Graduation
$P14_{p,y} = (P14_{p+1,y})/(1 - P13_{p+1,y})$
Entry - Graduate Average by Year of UPT Graduation
$P15_{p,y} = \{P14_{p,y} + [P14_{p,y}/(1 - P13_{p,y})]\}/2$
Is $p \leq 1$?
No
$p = p - 1$
Yes
Is $y \geq A8$?
No
$y = y + 1$
Yes
E

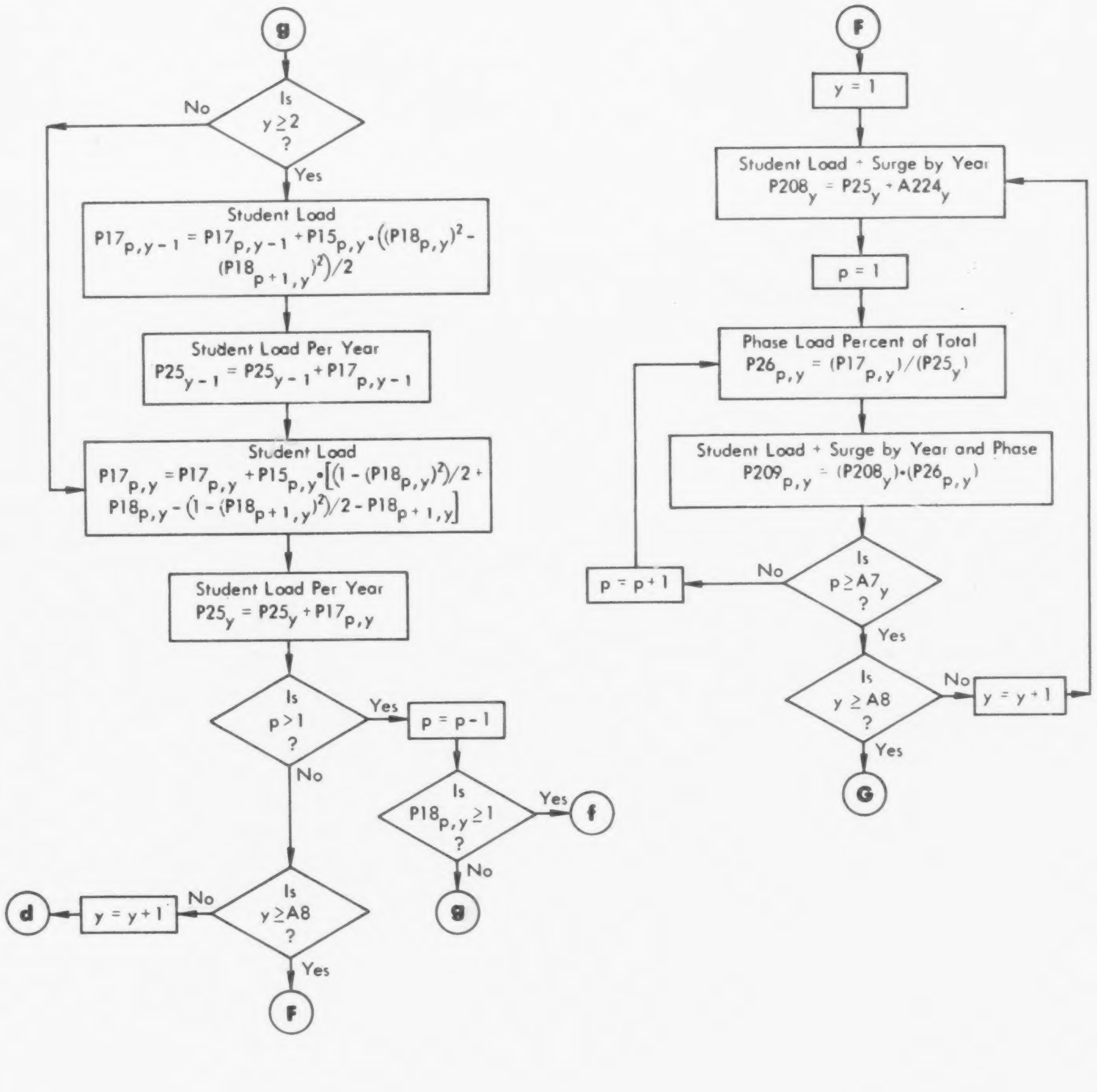
SEGMENT TWO: STUDENT LOAD


E
$y = 1$
d
$p = A7_y$
Set Student Load = 0
$P17_{p,y} = 0$
Set Student Load Per Year = 0
$P25_y = 0$
Is $P16_{p,y} \geq 1$?
No
Yes
Is $y \geq 2$?
No
Yes
Is $y \geq 3$?
No
Yes
Student Load
$P17_{p,y-2} = P17_{p,y-2} + [(P16_{p,y} - 1)^2 \cdot (P15_{p,y}) \cdot (\frac{1}{2})]$
Student Load Per Year
$P25_{y-2} = P25_{y-2} + P17_{p,y-2}$
Student Load
$P17_{p,y-1} = P17_{p,y-1} + (2 - P16_{p,y}) \cdot \{[P15_{p,y} + P16_{p,y} - 1) \cdot (P15_{p,y})]/2\} + P15_{p,y} \cdot (P16_{p,y} - 1)$
Student Load Per Year
$P25_{y-1} = P25_{y-1} + P17_{p,y-1}$
Student Load
$P17_{p,y} = P15_{p,y} \cdot (\frac{1}{2})$
Student Load Per Year
$P25_y = P25_y + P17_{p,y}$
DD
DD
Is $p > 1$?
Yes
$p = p - 1$
C
No
Is $y \geq A8$?
No
$y = y + 1$
d
Yes
F
C
Is $y \geq 2$?
No
Yes
Is $y \geq 3$?
No
Yes
Student Load
$P17_{p,y-2} = P17_{p,y-2} + P15_{p,y} \cdot ((P18_{p,y-1})^2 - (P18_{p+1,y})^2)/2$
Student Load Per Year
$P25_{y-2} = P25_{y-2} + P17_{p,y-2}$
Student Load
$P17_{p,y-1} = P17_{p,y-1} + (P15_{p,y}/2) \cdot (4\ P18_{p,y} - (P18_{p,y})^2 - 4\ P18_{p+1,y} + (P18_{p+1,y})^2)$
Student Load Per Year
$P25_{y-1} = P25_{y-1} + P17_{p,y-1}$
Is $p > 1$?
Yes
$p = p - 1$
No

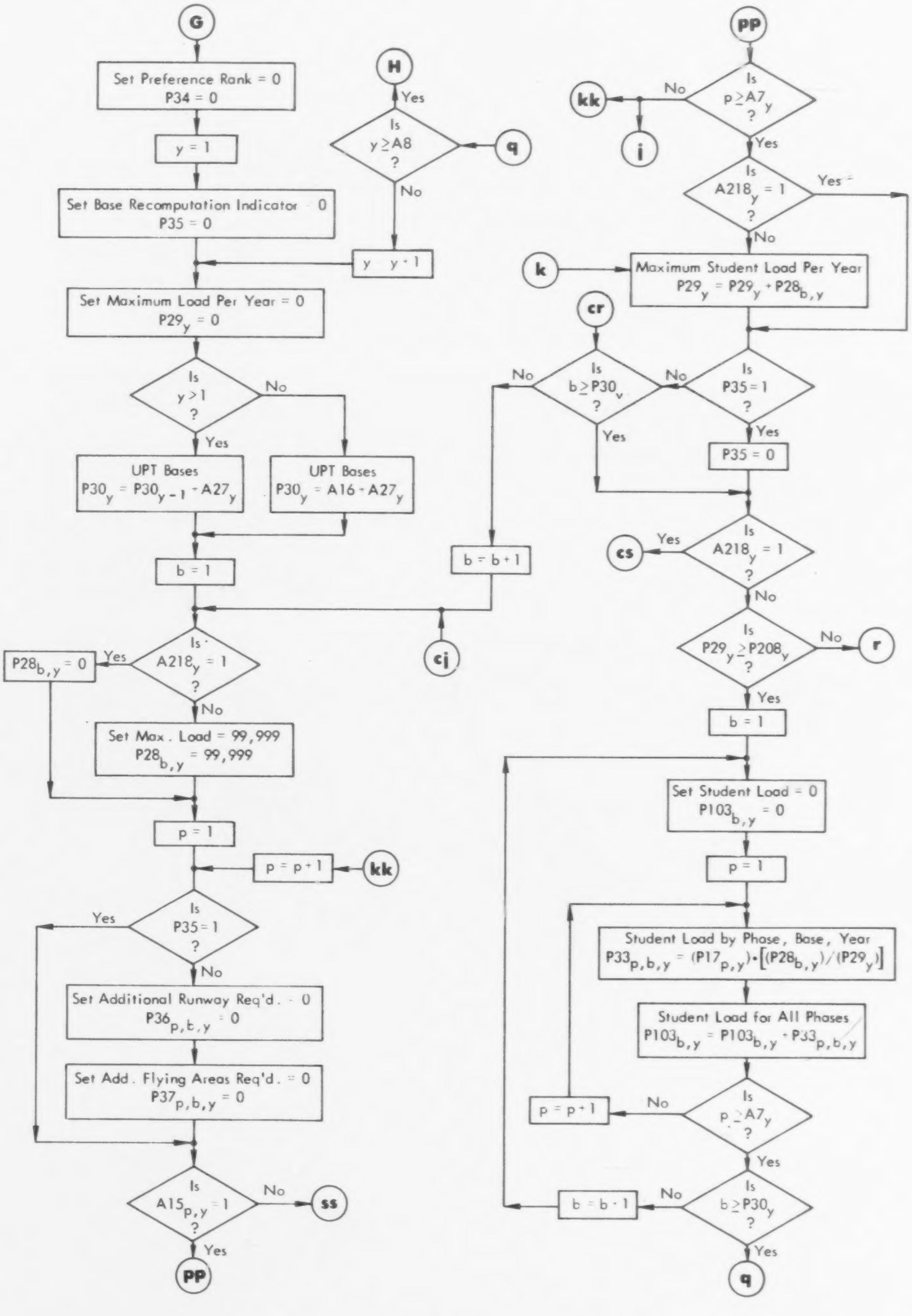
SEGMENT TWO: STUDENT LOAD


e
Is $y \geq 2$?
No
Yes
Student Load
$P17_{p,y-1} = P17_{p,y-1} + (P18_{p,y})^2 \cdot (\frac{1}{2}) \cdot (P15_{p,y})$
Student Load Per Year
$P25_{y-1} = P25_{y-1} + P17_{p,y-1}$
Student Load
$P17_{p,y} = P17_{p,y} + P15_{p,y} \cdot (P18_{p,y} - (P18_{p,y})^2 \cdot (\frac{1}{2}))$
Student Load Per Year
$P25_y = P25_y + P17_{p,y}$
Is $p > 1$?
Yes
$p = p - 1$
Is $P18_{p,y} \geq 1$?
Yes
f
No
g
No
Is $y \geq A8$?
No
$y = y + 1$
d
Yes
F
f
Is $y \geq 2$?
No
Yes
Is $y \geq 3$?
No
Yes
Student Load
$P17_{p,y-2} = P17_{p,y-2} + (P18_{p,y} - 1)^2 \cdot (P15_{p,y}) \cdot (\frac{1}{2})$
Student Load Per Year
$P25_{y-2} = P25_{y-2} + P17_{p,y-2}$
Student Load
$P17_{p,y-1} = P17_{p,y-1} + (P15_{p,y}/2) \cdot (4 \cdot P18_{p,y} - (P18_{p,y})^2 - (P18_{p+1,y})^2 - 2)$
Student Load Per Year
$P25_{y-1} = P25_{y-1} + P17_{p,y-1}$
Student Load
$P17_{p,y} = P17_{p,y} + P15_{p,y} \cdot (1 - (1 - (P18_{p+1,y})^2)/2 - (P18_{p+1,y})$
Student Load Per Year
$P25_y = P25_y + P17_{p,y}$
Is $p > 1$?
Yes
$p = p - 1$
c
No
Is $y \geq A8$?
No
$y = y + 1$
d
Yes
F

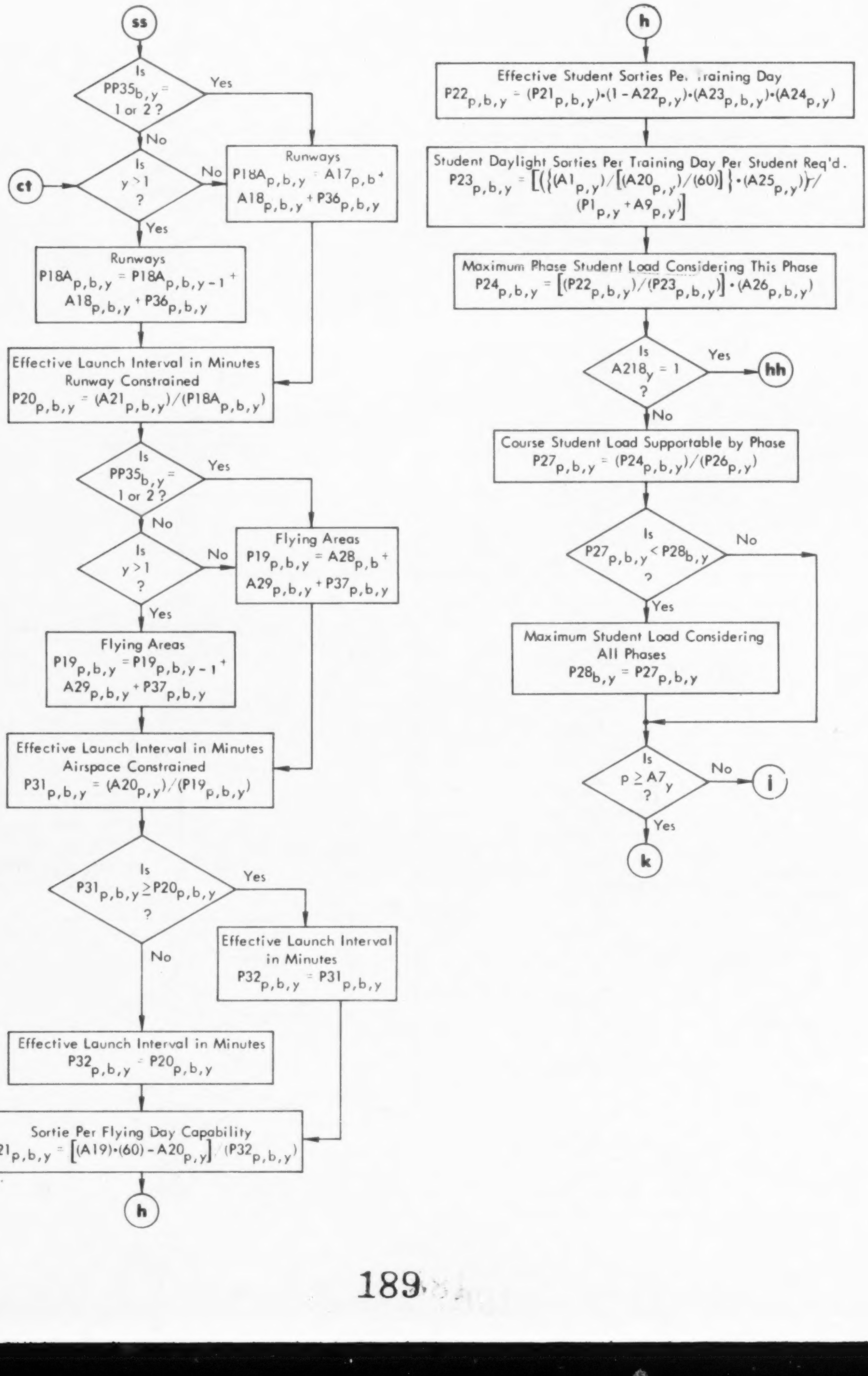
SEGMENT TWO: STUDENT LOAD


g
Is y ≥ 2 ?
No
Yes
Student Load
P17p,y-1 = P17p,y-1 + P15p,y • ((P18p,y)² - (P18p+1,y)²)/2
Student Load Per Year
P25y-1 = P25y-1 + P17p,y-1
Student Load
P17p,y = P17p,y + P15p,y • [(1 - (P18p,y)²)/2 + P18p,y - (1 - (P18p+1,y)²)/2 - P18p+1,y]
Student Load Per Year
P25y = P25y + P17p,y
Is p > 1 ?
Yes
p = p - 1
Is P18p,y ≥ 1 ?
Yes
f
No
g
No
Is y ≥ A8 ?
No
y = y + 1
d
Yes
F
F
y = 1
Student Load + Surge by Year
P208y = P25y + A224y
p = 1
Phase Load Percent of Total
P26p,y = (P17p,y)/(P25y)
Student Load + Surge by Year and Phase
P209p,y = (P208y)•(P26p,y)
Is p ≥ A7y ?
No
p = p + 1
Yes
Is y ≥ A8 ?
No
y = y + 1
Yes
G

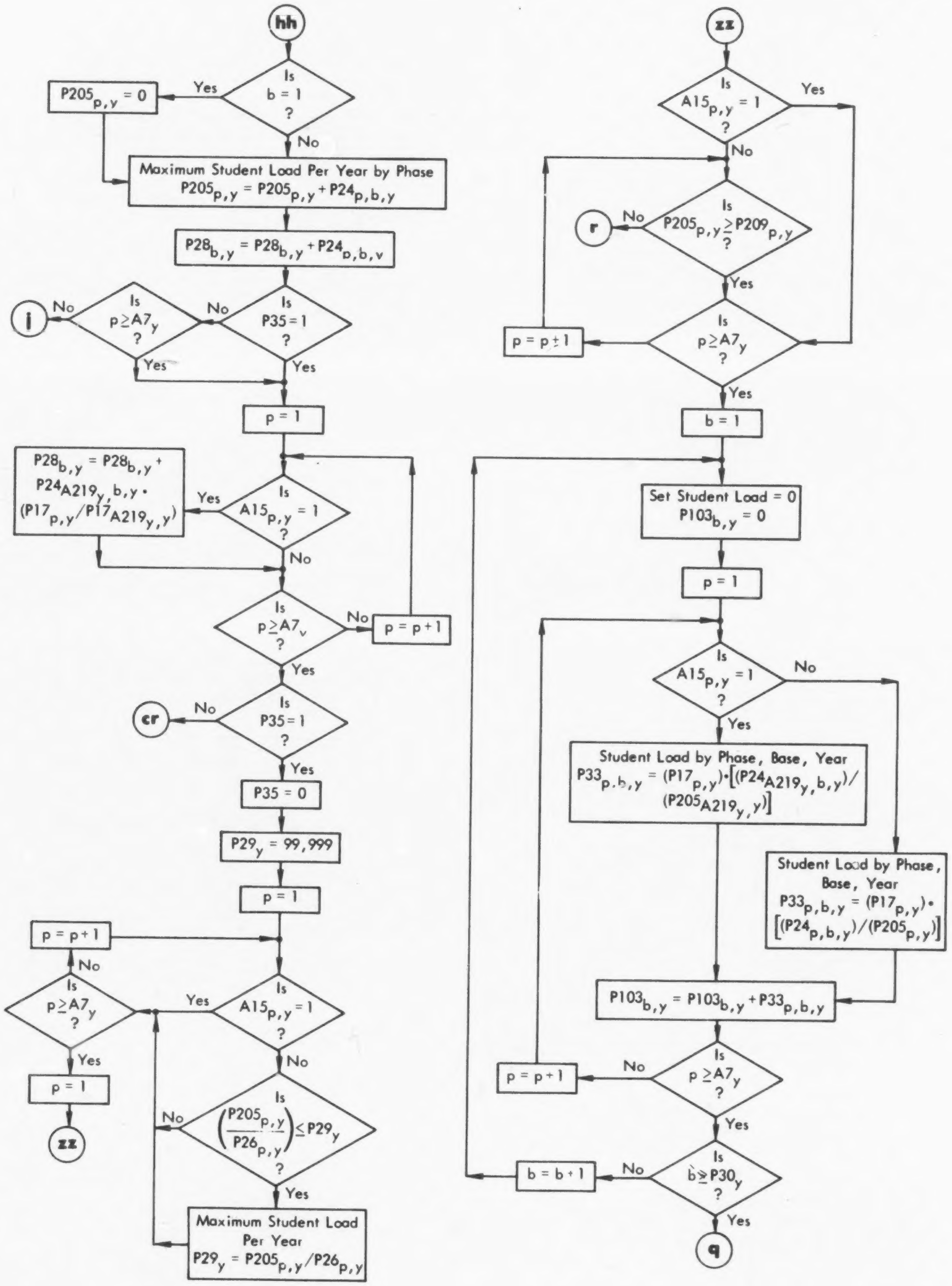
SEGMENT THREE: TRAINING CAPACITY


G
Set Preference Rank = 0
P34 = 0
y = 1
Set Base Recomputation Indicator = 0
P35 = 0
Set Maximum Load Per Year = 0
P29y = 0
Is y > 1 ?
Yes
No
UPT Bases
P30y = P30y-1 + A27y
UPT Bases
P30y = A16 + A27y
b = 1
Is A218y = 1 ?
Yes
No
P28b,y = 0
Set Max. Load = 99,999
P28b,y = 99,999
p = 1
p = p + 1
kk
Is P35 = 1 ?
Yes
No
Set Additional Runway Req'd. = 0
P36p,b,y = 0
Set Add. Flying Areas Req'd. = 0
P37p,b,y = 0
Is A15p,y = 1 ?
No
ss
Yes
PP
H
Yes
Is y ≥ A8 ?
q
No
y = y + 1
cr
Is b ≥ P30y ?
No
Yes
b = b + 1
cj
PP
Is p ≥ A7y ?
No
kk
i
Yes
Is A218y = 1 ?
Yes
No
k
Maximum Student Load Per Year
P29y = P29y + P28b,y
Is P35 = 1 ?
No
Yes
P35 = 0
Is A218y = 1 ?
Yes
cs
No
Is P29y ≥ P208y ?
No
r
Yes
b = 1
Set Student Load = 0
P103b,y = 0
p = 1
Student Load by Phase, Base, Year
P33p,b,y = (P17p,y)•[(P28b,y)/(P29y)]
Student Load for All Phases
P103b,y = P103b,y + P33p,b,y
Is p ≥ A7y ?
No
p = p + 1
Yes
Is b ≥ P30y ?
No
b = b + 1
Yes
q

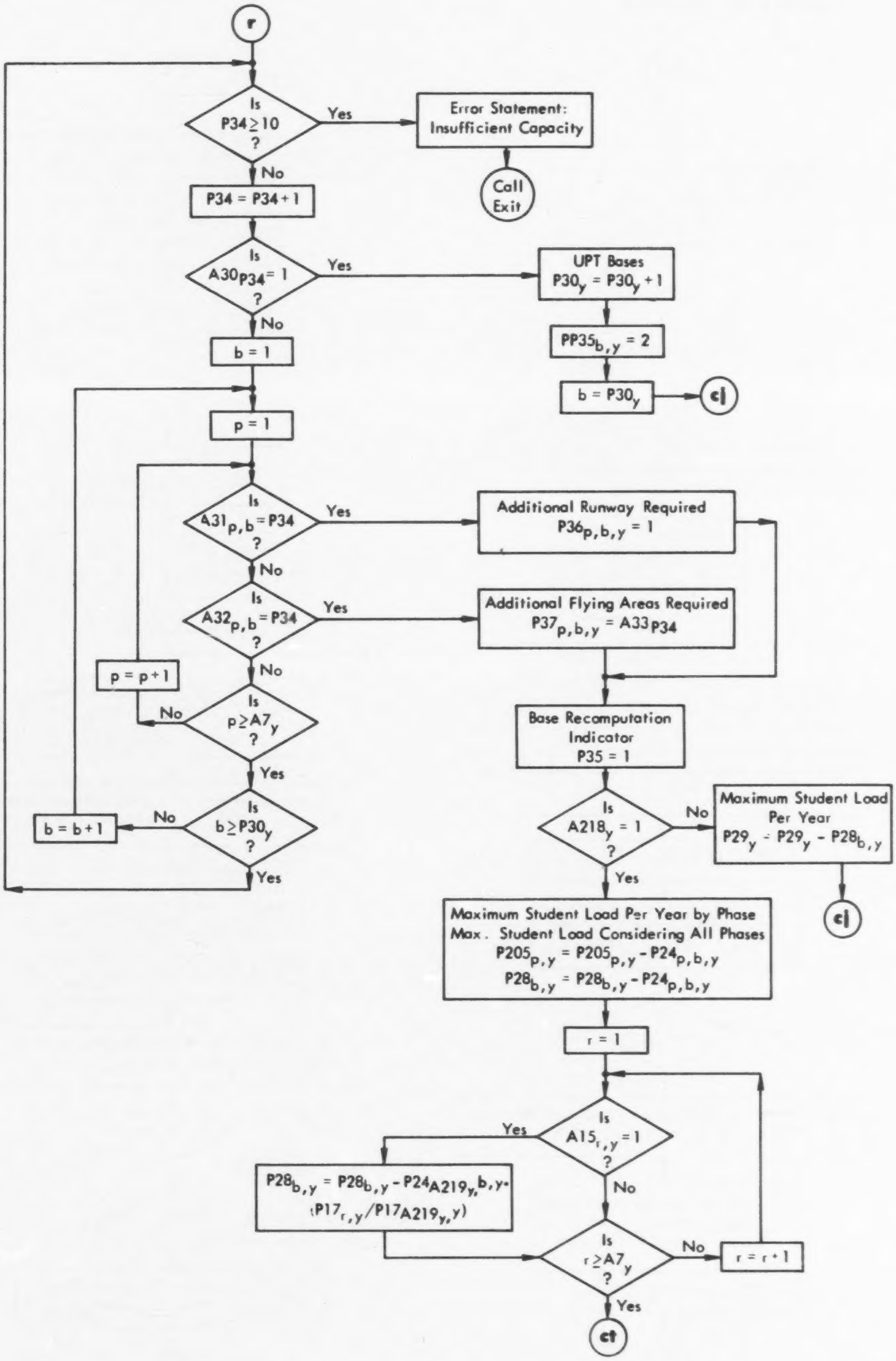
SEGMENT THREE: TRAINING CAPACITY


ss
Is $PP35_{b,y}$ = 1 or 2 ?
Yes
No
Runways
$P18A_{p,b,y} = A17_{p,b} + A18_{p,b,y} + P36_{p,b,y}$
ct
Is $y > 1$?
No
Yes
Runways
$P18A_{p,b,y} = P18A_{p,b,y-1} + A18_{p,b,y} + P36_{p,b,y}$
Effective Launch Interval in Minutes Runway Constrained
$P20_{p,b,y} = (A21_{p,b,y})/(P18A_{p,b,y})$
Is $PP35_{b,y}$ = 1 or 2 ?
Yes
No
Flying Areas
$P19_{p,b,y} = A28_{p,b} + A29_{p,b,y} + P37_{p,b,y}$
Is $y > 1$?
No
Yes
Flying Areas
$P19_{p,b,y} = P19_{p,b,y-1} + A29_{p,b,y} + P37_{p,b,y}$
Effective Launch Interval in Minutes Airspace Constrained
$P31_{p,b,y} = (A20_{p,y})/(P19_{p,b,y})$
Is $P31_{p,b,y} \geq P20_{p,b,y}$?
Yes
Effective Launch Interval in Minutes
$P32_{p,b,y} = P31_{p,b,y}$
No
Effective Launch Interval in Minutes
$P32_{p,b,y} = P20_{p,b,y}$
Sortie Per Flying Day Capability
$P21_{p,b,y} = \left[(A19)\cdot(60) - A20_{p,y}\right]/(P32_{p,b,y})$
h
h
Effective Student Sorties Per Training Day
$P22_{p,b,y} = (P21_{p,b,y})\cdot(1 - A22_{p,y})\cdot(A23_{p,b,y})\cdot(A24_{p,y})$
Student Daylight Sorties Per Training Day Per Student Req'd.
$P23_{p,b,y} = \left[\left(\left\{(A1_{p,y})/\left[(A20_{p,y})/(60)\right]\right\}\cdot(A25_{p,y})\right)/(P1_{p,y} + A9_{p,y})\right]$
Maximum Phase Student Load Considering This Phase
$P24_{p,b,y} = \left[(P22_{p,b,y})/(P23_{p,b,y})\right]\cdot(A26_{p,b,y})$
Is $A218_y = 1$?
Yes
hh
No
Course Student Load Supportable by Phase
$P27_{p,b,y} = (P24_{p,b,y})/(P26_{p,y})$
Is $P27_{p,b,y} < P28_{b,y}$?
No
Yes
Maximum Student Load Considering All Phases
$P28_{b,y} = P27_{p,b,y}$
Is $p \geq A7_y$?
No
i
Yes
k

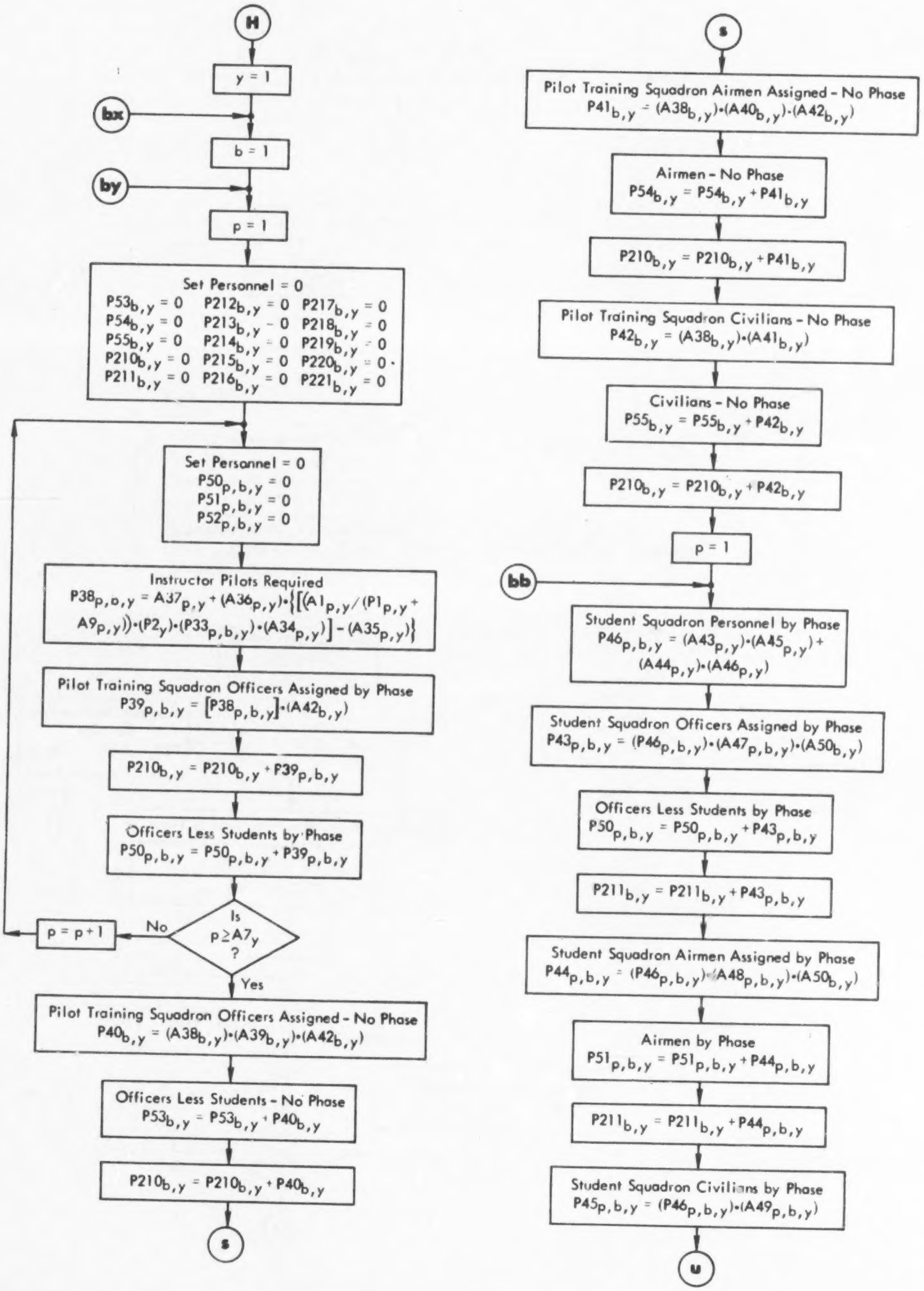
SEGMENT THREE: TRAINING CAPACITY


hh
Is $b = 1$?
Yes
$P205_{p,y} = 0$
No
Maximum Student Load Per Year by Phase
$P205_{p,y} = P205_{p,y} + P24_{p,b,y}$
$P28_{b,y} = P28_{b,y} + P24_{p,b,y}$
Is $P35 = 1$?
No
Is $p \geq A7_y$?
No
j
Yes
Yes
$p = 1$
Is $A15_{p,y} = 1$?
Yes
$P28_{b,y} = P28_{b,y} + P24_{A219_y,b,y} \cdot (P17_{p,y}/P17_{A219_y,y})$
No
Is $p \geq A7_y$?
No
$p = p+1$
Yes
Is $P35 = 1$?
No
cr
Yes
$P35 = 0$
$P29_y = 99,999$
$p = 1$
Is $A15_{p,y} = 1$?
Yes
Is $p \geq A7_y$?
No
$p = p+1$
Yes
$p = 1$
zz
No
Is $\left(\frac{P205_{p,y}}{P26_{p,y}}\right) \leq P29_y$?
No
Yes
Maximum Student Load Per Year
$P29_y = P205_{p,y}/P26_{p,y}$
zz
Is $A15_{p,y} = 1$?
Yes
No
Is $P205_{p,y} \geq P209_{p,y}$?
No
r
Yes
Is $p \geq A7_y$?
$p = p+1$
Yes
$b = 1$
Set Student Load = 0
$P103_{b,y} = 0$
$p = 1$
Is $A15_{p,y} = 1$?
No
Yes
Student Load by Phase, Base, Year
$P33_{p,b,y} = (P17_{p,y}) \cdot [(P24_{A219_y,b,y})/(P205_{A219_y,y})]$
Student Load by Phase, Base, Year
$P33_{p,b,y} = (P17_{p,y}) \cdot [(P24_{p,b,y})/(P205_{p,y})]$
$P103_{b,y} = P103_{b,y} + P33_{p,b,y}$
Is $p \geq A7_y$?
No
$p = p+1$
Yes
Is $b \geq P30_y$?
No
$b = b+1$
Yes
q

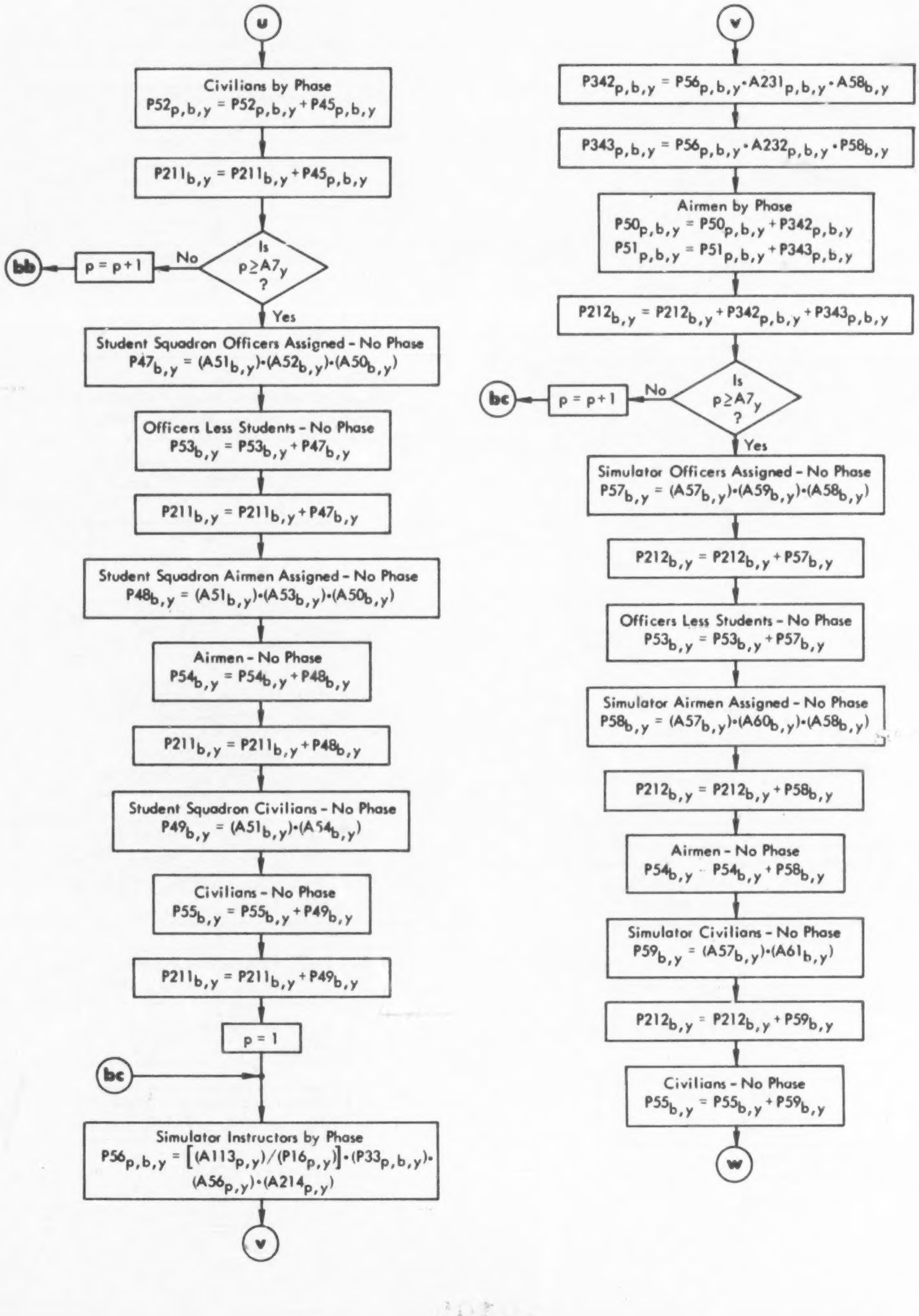
SEGMENT THREE: TRAINING CAPACITY


r
Is $P34 \geq 10$?
Yes
Error Statement: Insufficient Capacity
Call Exit
No
P34 = P34 + 1
Is $A30_{P34} = 1$?
Yes
UPT Bases $P30_y = P30_y + 1$
$PP35_{b,y} = 2$
$b = P30_y$
cl
No
b = 1
p = 1
Is $A31_{p,b} = P34$?
Yes
Additional Runway Required $P36_{p,b,y} = 1$
No
Is $A32_{p,b} = P34$?
Yes
Additional Flying Areas Required $P37_{p,b,y} = A33_{P34}$
No
p = p + 1
Is $p \geq A7_y$?
No
Yes
Base Recomputation Indicator P35 = 1
b = b + 1
No
Is $b \geq P30_y$?
Yes
Is $A218_y = 1$?
No
Maximum Student Load Per Year $P29_y = P29_y - P28_{b,y}$
cl
Yes
Maximum Student Load Per Year by Phase
Max. Student Load Considering All Phases
$P205_{p,y} = P205_{p,y} - P24_{p,b,y}$
$P28_{b,y} = P28_{b,y} - P24_{p,b,y}$
r = 1
Is $A15_{r,y} = 1$?
Yes
$P28_{b,y} = P28_{b,y} - P24_{A219_y,b,y} \cdot (P17_{r,y} / P17_{A219_y,y})$
No
Is $r \geq A7_y$?
No
r = r + 1
Yes
ct

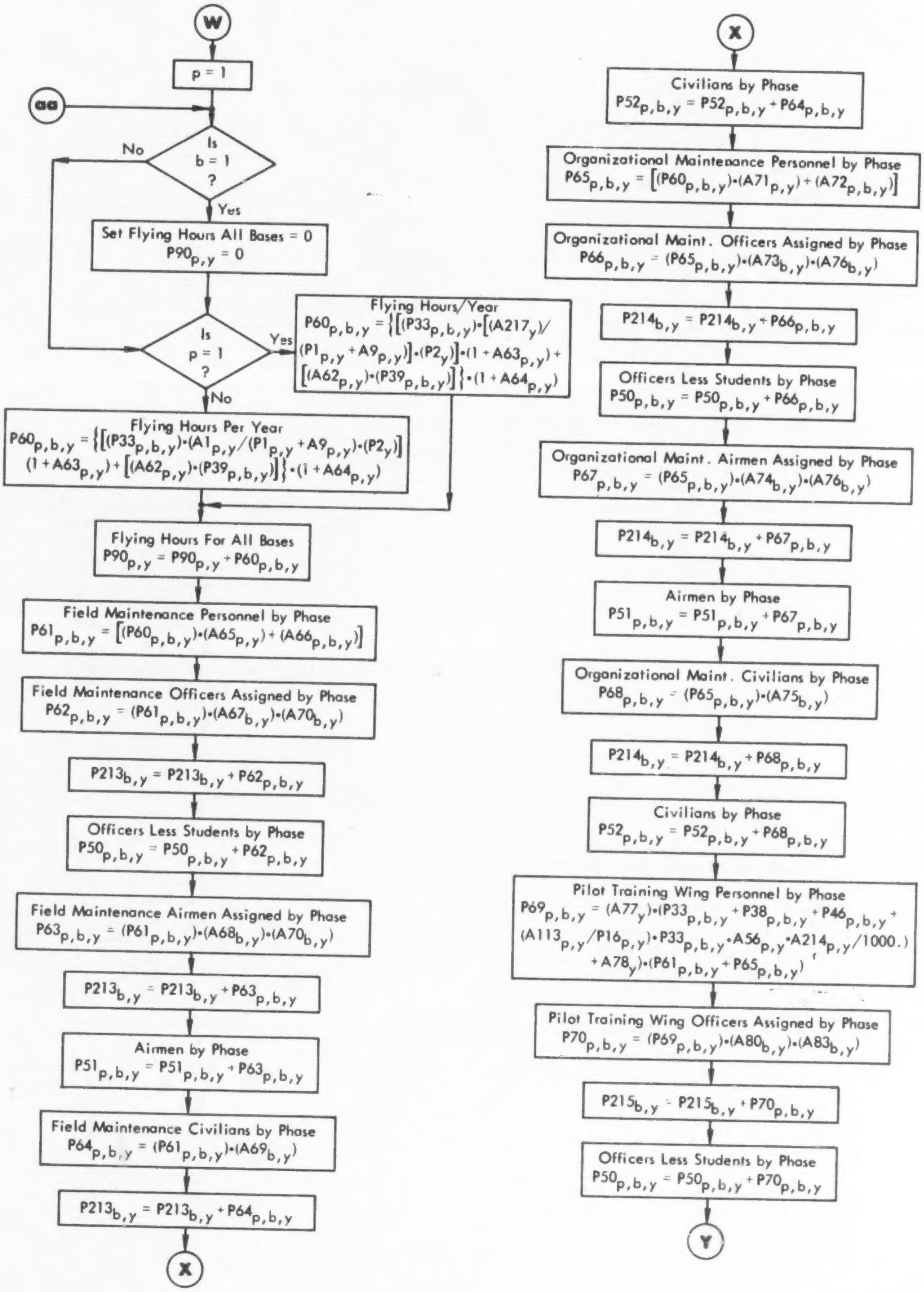
SEGMENT FOUR: MANPOWER


H
$y = 1$
bx
$b = 1$
by
$p = 1$
Set Personnel = 0
$P53_{b,y} = 0$ $P212_{b,y} = 0$ $P217_{b,y} = 0$
$P54_{b,y} = 0$ $P213_{b,y} - 0$ $P218_{b,y} = 0$
$P55_{b,y} = 0$ $P214_{b,y} = 0$ $P219_{b,y} = 0$
$P210_{b,y} = 0$ $P215_{b,y} = 0$ $P220_{b,y} = 0$
$P211_{b,y} = 0$ $P216_{b,y} = 0$ $P221_{b,y} = 0$
Set Personnel = 0
$P50_{p,b,y} = 0$
$P51_{p,b,y} = 0$
$P52_{p,b,y} = 0$
Instructor Pilots Required
$P38_{p,b,y} = A37_{p,y} + (A36_{p,y}) \cdot \{[(A1_{p,y}/(P1_{p,y} + A9_{p,y})) \cdot (P2_y) \cdot (P33_{p,b,y}) \cdot (A34_{p,y})] - (A35_{p,y})\}$
Pilot Training Squadron Officers Assigned by Phase
$P39_{p,b,y} = [P38_{p,b,y}] \cdot (A42_{b,y})$
$P210_{b,y} = P210_{b,y} + P39_{p,b,y}$
Officers Less Students by Phase
$P50_{p,b,y} = P50_{p,b,y} + P39_{p,b,y}$
$p = p + 1$
No
Is $p \geq A7_y$?
Yes
Pilot Training Squadron Officers Assigned - No Phase
$P40_{b,y} = (A38_{b,y}) \cdot (A39_{b,y}) \cdot (A42_{b,y})$
Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P40_{b,y}$
$P210_{b,y} = P210_{b,y} + P40_{b,y}$
s
s
Pilot Training Squadron Airmen Assigned - No Phase
$P41_{b,y} = (A38_{b,y}) \cdot (A40_{b,y}) \cdot (A42_{b,y})$
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P41_{b,y}$
$P210_{b,y} = P210_{b,y} + P41_{b,y}$
Pilot Training Squadron Civilians - No Phase
$P42_{b,y} = (A38_{b,y}) \cdot (A41_{b,y})$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P42_{b,y}$
$P210_{b,y} = P210_{b,y} + P42_{b,y}$
$p = 1$
bb
Student Squadron Personnel by Phase
$P46_{p,b,y} = (A43_{p,y}) \cdot (A45_{p,y}) + (A44_{p,y}) \cdot (A46_{p,y})$
Student Squadron Officers Assigned by Phase
$P43_{p,b,y} = (P46_{p,b,y}) \cdot (A47_{p,b,y}) \cdot (A50_{b,y})$
Officers Less Students by Phase
$P50_{p,b,y} = P50_{p,b,y} + P43_{p,b,y}$
$P211_{b,y} = P211_{b,y} + P43_{p,b,y}$
Student Squadron Airmen Assigned by Phase
$P44_{p,b,y} = (P46_{p,b,y}) \cdot (A48_{p,b,y}) \cdot (A50_{b,y})$
Airmen by Phase
$P51_{p,b,y} = P51_{p,b,y} + P44_{p,b,y}$
$P211_{b,y} = P211_{b,y} + P44_{p,b,y}$
Student Squadron Civilians by Phase
$P45_{p,b,y} = (P46_{p,b,y}) \cdot (A49_{p,b,y})$
u

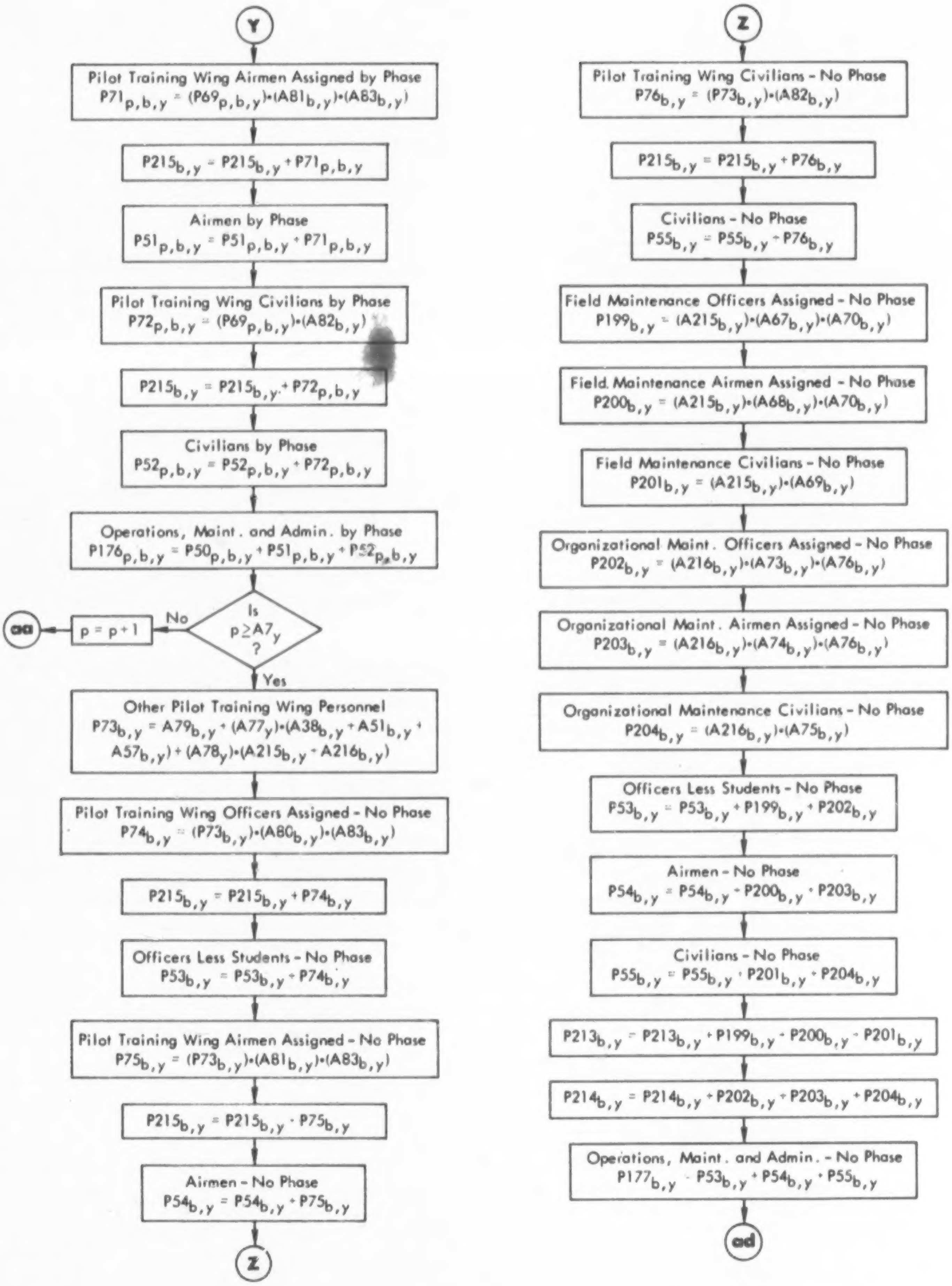
SEGMENT FOUR: MANPOWER


u
Civilians by Phase
$P52_{p,b,y} = P52_{p,b,y} + P45_{p,b,y}$
$P211_{b,y} = P211_{b,y} + P45_{p,b,y}$
Is $p \geq A7_y$?
No
$p = p+1$
bb
Yes
Student Squadron Officers Assigned - No Phase
$P47_{b,y} = (A51_{b,y}) \cdot (A52_{b,y}) \cdot (A50_{b,y})$
Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P47_{b,y}$
$P211_{b,y} = P211_{b,y} + P47_{b,y}$
Student Squadron Airmen Assigned - No Phase
$P48_{b,y} = (A51_{b,y}) \cdot (A53_{b,y}) \cdot (A50_{b,y})$
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P48_{b,y}$
$P211_{b,y} = P211_{b,y} + P48_{b,y}$
Student Squadron Civilians - No Phase
$P49_{b,y} = (A51_{b,y}) \cdot (A54_{b,y})$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P49_{b,y}$
$P211_{b,y} = P211_{b,y} + P49_{b,y}$
$p = 1$
bc
Simulator Instructors by Phase
$P56_{p,b,y} = \left[(A113_{p,y})/(P16_{p,y})\right] \cdot (P33_{p,b,y}) \cdot (A56_{p,y}) \cdot (A214_{p,y})$
v
v
$P342_{p,b,y} = P56_{p,b,y} \cdot A231_{p,b,y} \cdot A58_{b,y}$
$P343_{p,b,y} = P56_{p,b,y} \cdot A232_{p,b,y} \cdot P58_{b,y}$
Airmen by Phase
$P50_{p,b,y} = P50_{p,b,y} + P342_{p,b,y}$
$P51_{p,b,y} = P51_{p,b,y} + P343_{p,b,y}$
$P212_{b,y} = P212_{b,y} + P342_{p,b,y} + P343_{p,b,y}$
Is $p \geq A7_y$?
No
$p = p+1$
bc
Yes
Simulator Officers Assigned - No Phase
$P57_{b,y} = (A57_{b,y}) \cdot (A59_{b,y}) \cdot (A58_{b,y})$
$P212_{b,y} = P212_{b,y} + P57_{b,y}$
Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P57_{b,y}$
Simulator Airmen Assigned - No Phase
$P58_{b,y} = (A57_{b,y}) \cdot (A60_{b,y}) \cdot (A58_{b,y})$
$P212_{b,y} = P212_{b,y} + P58_{b,y}$
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P58_{b,y}$
Simulator Civilians - No Phase
$P59_{b,y} = (A57_{b,y}) \cdot (A61_{b,y})$
$P212_{b,y} = P212_{b,y} + P59_{b,y}$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P59_{b,y}$
w

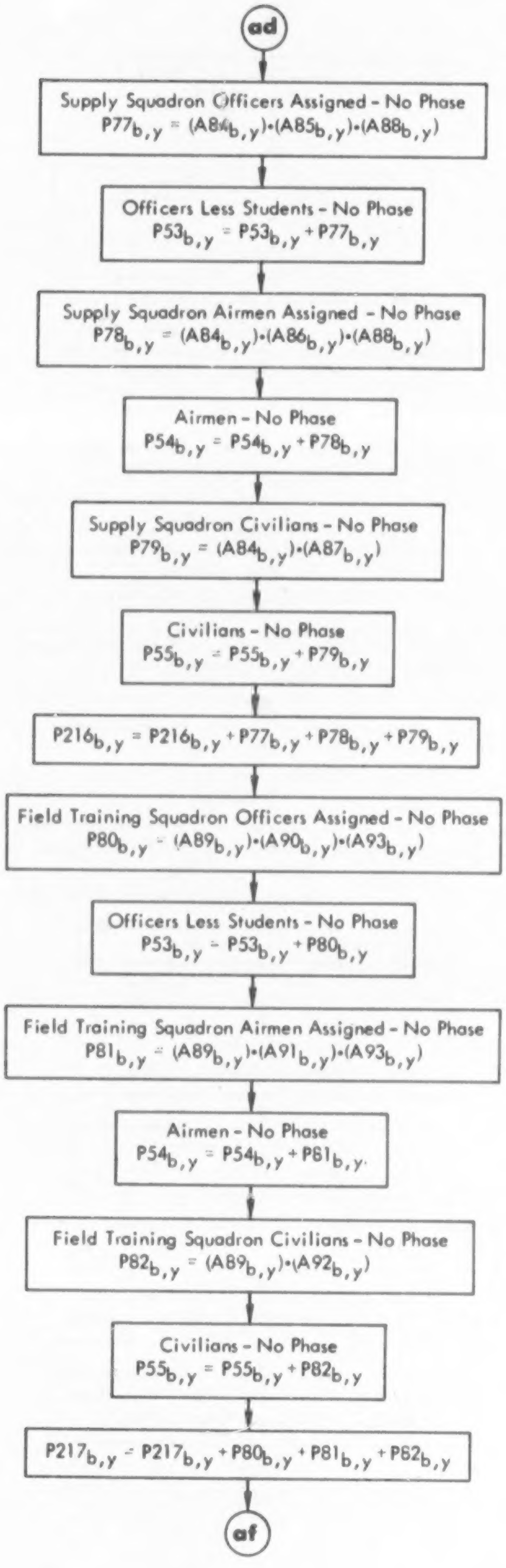
SEGMENT FOUR: MANPOWER

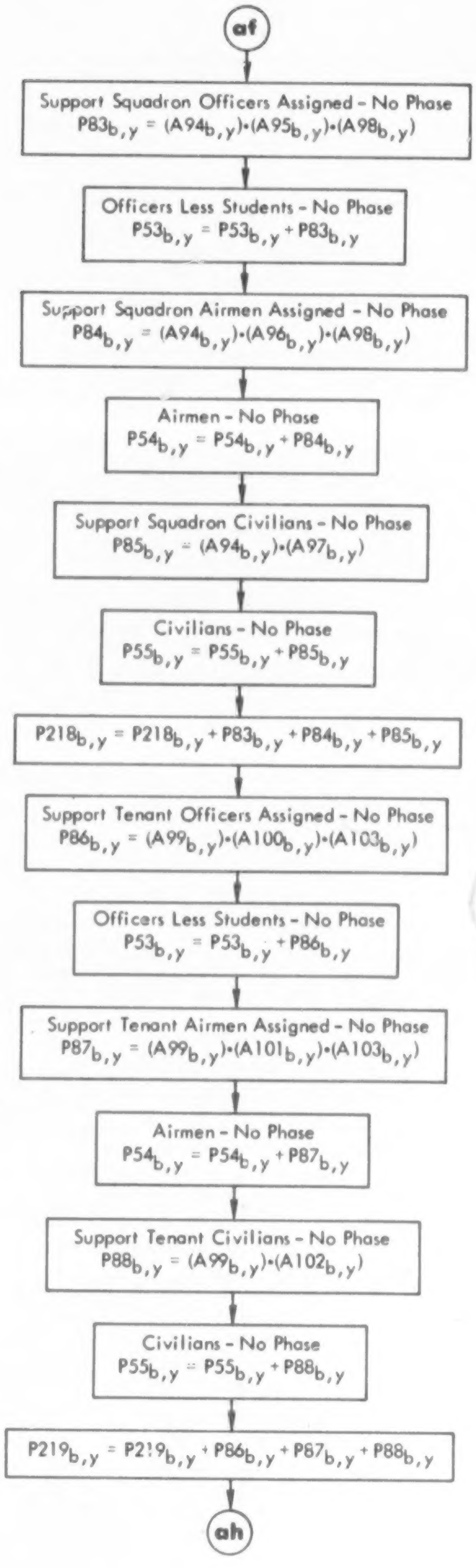

W
p = 1
aa
Is b = 1 ?
No
Yes
Set Flying Hours All Bases = 0
$P90_{p,y} = 0$
Is p = 1 ?
Yes
No
Flying Hours/Year
$P60_{p,b,y} = \{[(P33_{p,b,y})\cdot[(A217_y)/(P1_{p,y}+A9_{p,y})]\cdot(P2_y)]\cdot(1+A63_{p,y})+[(A62_{p,y})\cdot(P39_{p,b,y})]\}\cdot(1+A64_{p,y})$
Flying Hours Per Year
$P60_{p,b,y} = \{[(P33_{p,b,y})\cdot(A1_{p,y}/(P1_{p,y}+A9_{p,y})\cdot(P2_y)](1+A63_{p,y})+[(A62_{p,y})\cdot(P39_{p,b,y})]\}\cdot(1+A64_{p,y})$
Flying Hours For All Bases
$P90_{p,y} = P90_{p,y} + P60_{p,b,y}$
Field Maintenance Personnel by Phase
$P61_{p,b,y} = [(P60_{p,b,y})\cdot(A65_{p,y})+(A66_{p,b,y})]$
Field Maintenance Officers Assigned by Phase
$P62_{p,b,y} = (P61_{p,b,y})\cdot(A67_{b,y})\cdot(A70_{b,y})$
$P213_{b,y} = P213_{b,y} + P62_{p,b,y}$
Officers Less Students by Phase
$P50_{p,b,y} = P50_{p,b,y} + P62_{p,b,y}$
Field Maintenance Airmen Assigned by Phase
$P63_{p,b,y} = (P61_{p,b,y})\cdot(A68_{b,y})\cdot(A70_{b,y})$
$P213_{b,y} = P213_{b,y} + P63_{p,b,y}$
Airmen by Phase
$P51_{p,b,y} = P51_{p,b,y} + P63_{p,b,y}$
Field Maintenance Civilians by Phase
$P64_{p,b,y} = (P61_{p,b,y})\cdot(A69_{b,y})$
$P213_{b,y} = P213_{b,y} + P64_{p,b,y}$
X
X
Civilians by Phase
$P52_{p,b,y} = P52_{p,b,y} + P64_{p,b,y}$
Organizational Maintenance Personnel by Phase
$P65_{p,b,y} = [(P60_{p,b,y})\cdot(A71_{p,y})+(A72_{p,b,y})]$
Organizational Maint. Officers Assigned by Phase
$P66_{p,b,y} = (P65_{p,b,y})\cdot(A73_{b,y})\cdot(A76_{b,y})$
$P214_{b,y} = P214_{b,y} + P66_{p,b,y}$
Officers Less Students by Phase
$P50_{p,b,y} = P50_{p,b,y} + P66_{p,b,y}$
Organizational Maint. Airmen Assigned by Phase
$P67_{p,b,y} = (P65_{p,b,y})\cdot(A74_{b,y})\cdot(A76_{b,y})$
$P214_{b,y} = P214_{b,y} + P67_{p,b,y}$
Airmen by Phase
$P51_{p,b,y} = P51_{p,b,y} + P67_{p,b,y}$
Organizational Maint. Civilians by Phase
$P68_{p,b,y} = (P65_{p,b,y})\cdot(A75_{b,y})$
$P214_{b,y} = P214_{b,y} + P68_{p,b,y}$
Civilians by Phase
$P52_{p,b,y} = P52_{p,b,y} + P68_{p,b,y}$
Pilot Training Wing Personnel by Phase
$P69_{p,b,y} = (A77_y)\cdot(P33_{p,b,y} + P38_{p,b,y} + P46_{p,b,y} + (A113_{p,y}/P16_{p,y})\cdot P33_{p,b,y}\cdot A56_{p,y}\cdot A214_{p,y}/1000.) + A78_y)\cdot(P61_{p,b,y} + P65_{p,b,y})$
Pilot Training Wing Officers Assigned by Phase
$P70_{p,b,y} = (P69_{p,b,y})\cdot(A80_{b,y})\cdot(A83_{b,y})$
$P215_{b,y} = P215_{b,y} + P70_{p,b,y}$
Officers Less Students by Phase
$P50_{p,b,y} = P50_{p,b,y} + P70_{p,b,y}$
Y

SEGMENT FOUR: MANPOWER

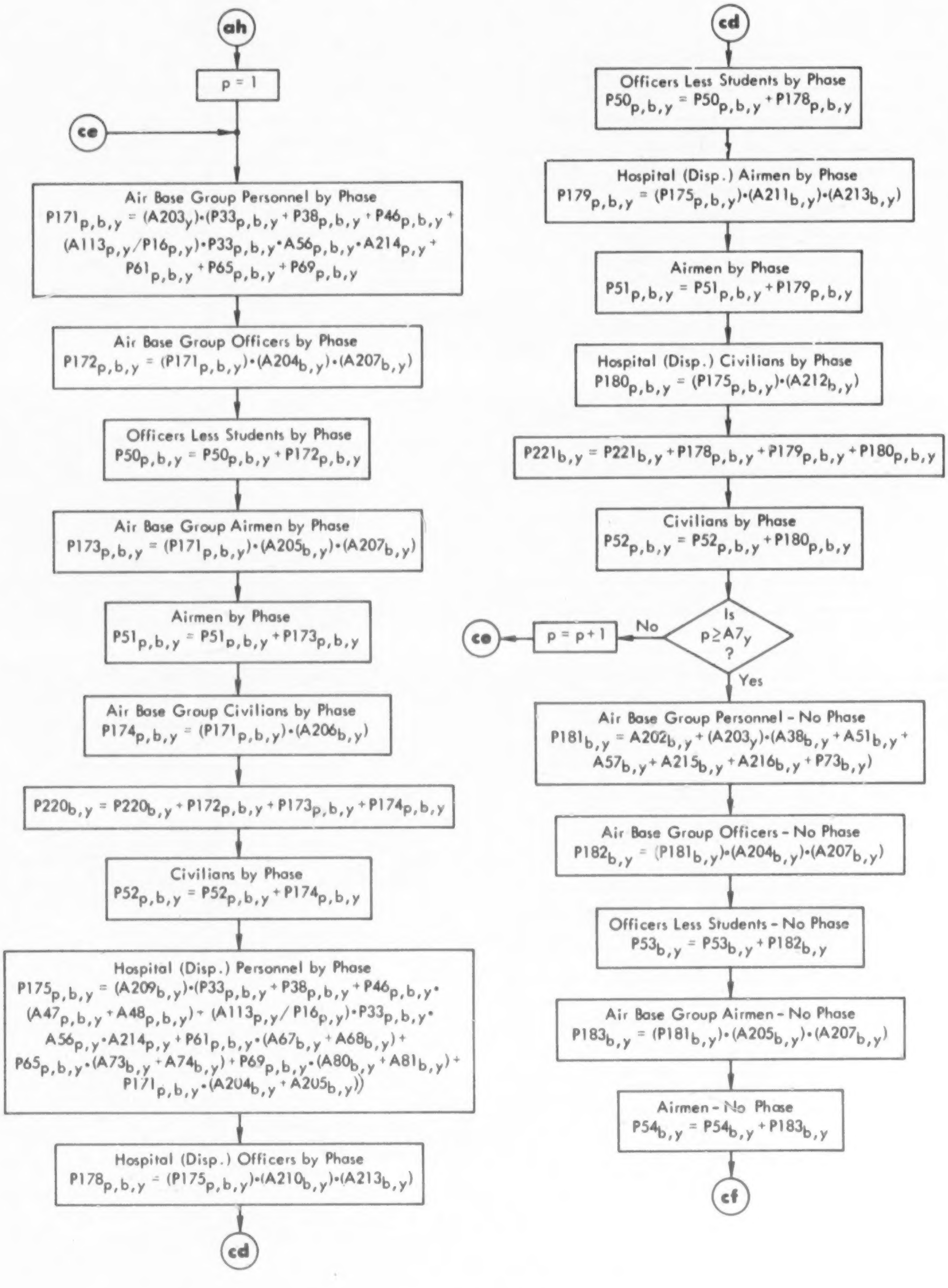

Y
Pilot Training Wing Airmen Assigned by Phase
$P71_{p,b,y} = (P69_{p,b,y})\cdot(A81_{b,y})\cdot(A83_{b,y})$
$P215_{b,y} = P215_{b,y} + P71_{p,b,y}$
Airmen by Phase
$P51_{p,b,y} = P51_{p,b,y} + P71_{p,b,y}$
Pilot Training Wing Civilians by Phase
$P72_{p,b,y} = (P69_{p,b,y})\cdot(A82_{b,y})$
$P215_{b,y} = P215_{b,y} + P72_{p,b,y}$
Civilians by Phase
$P52_{p,b,y} = P52_{p,b,y} + P72_{p,b,y}$
Operations, Maint. and Admin. by Phase
$P176_{p,b,y} = P50_{p,b,y} + P51_{p,b,y} + P52_{p,b,y}$
Is $p \geq A7_y$?
No
$p = p + 1$
aa
Yes
Other Pilot Training Wing Personnel
$P73_{b,y} = A79_{b,y} + (A77_y)\cdot(A38_{b,y} + A51_{b,y} + A57_{b,y}) + (A78_y)\cdot(A215_{b,y} + A216_{b,y})$
Pilot Training Wing Officers Assigned - No Phase
$P74_{b,y} = (P73_{b,y})\cdot(A80_{b,y})\cdot(A83_{b,y})$
$P215_{b,y} = P215_{b,y} + P74_{b,y}$
Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P74_{b,y}$
Pilot Training Wing Airmen Assigned - No Phase
$P75_{b,y} = (P73_{b,y})\cdot(A81_{b,y})\cdot(A83_{b,y})$
$P215_{b,y} = P215_{b,y} + P75_{b,y}$
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P75_{b,y}$
Z
Z
Pilot Training Wing Civilians - No Phase
$P76_{b,y} = (P73_{b,y})\cdot(A82_{b,y})$
$P215_{b,y} = P215_{b,y} + P76_{b,y}$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P76_{b,y}$
Field Maintenance Officers Assigned - No Phase
$P199_{b,y} = (A215_{b,y})\cdot(A67_{b,y})\cdot(A70_{b,y})$
Field Maintenance Airmen Assigned - No Phase
$P200_{b,y} = (A215_{b,y})\cdot(A68_{b,y})\cdot(A70_{b,y})$
Field Maintenance Civilians - No Phase
$P201_{b,y} = (A215_{b,y})\cdot(A69_{b,y})$
Organizational Maint. Officers Assigned - No Phase
$P202_{b,y} = (A216_{b,y})\cdot(A73_{b,y})\cdot(A76_{b,y})$
Organizational Maint. Airmen Assigned - No Phase
$P203_{b,y} = (A216_{b,y})\cdot(A74_{b,y})\cdot(A76_{b,y})$
Organizational Maintenance Civilians - No Phase
$P204_{b,y} = (A216_{b,y})\cdot(A75_{b,y})$
Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P199_{b,y} + P202_{b,y}$
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P200_{b,y} + P203_{b,y}$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P201_{b,y} + P204_{b,y}$
$P213_{b,y} = P213_{b,y} + P199_{b,y} + P200_{b,y} + P201_{b,y}$
$P214_{b,y} = P214_{b,y} + P202_{b,y} + P203_{b,y} + P204_{b,y}$
Operations, Maint. and Admin. - No Phase
$P177_{b,y} = P53_{b,y} + P54_{b,y} + P55_{b,y}$
ad

SEGMENT FOUR: MANPOWER


ad
Supply Squadron Officers Assigned - No Phase
$P77_{b,y} = (A84_{b,y}) \cdot (A85_{b,y}) \cdot (A88_{b,y})$
Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P77_{b,y}$
Supply Squadron Airmen Assigned - No Phase
$P78_{b,y} = (A84_{b,y}) \cdot (A86_{b,y}) \cdot (A88_{b,y})$
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P78_{b,y}$
Supply Squadron Civilians - No Phase
$P79_{b,y} = (A84_{b,y}) \cdot (A87_{b,y})$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P79_{b,y}$
$P216_{b,y} = P216_{b,y} + P77_{b,y} + P78_{b,y} + P79_{b,y}$
Field Training Squadron Officers Assigned - No Phase
$P80_{b,y} = (A89_{b,y}) \cdot (A90_{b,y}) \cdot (A93_{b,y})$
Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P80_{b,y}$
Field Training Squadron Airmen Assigned - No Phase
$P81_{b,y} = (A89_{b,y}) \cdot (A91_{b,y}) \cdot (A93_{b,y})$
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P81_{b,y}$
Field Training Squadron Civilians - No Phase
$P82_{b,y} = (A89_{b,y}) \cdot (A92_{b,y})$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P82_{b,y}$
$P217_{b,y} = P217_{b,y} + P80_{b,y} + P81_{b,y} + P82_{b,y}$
af


af
Support Squadron Officers Assigned - No Phase
$P83_{b,y} = (A94_{b,y}) \cdot (A95_{b,y}) \cdot (A98_{b,y})$
Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P83_{b,y}$
Support Squadron Airmen Assigned - No Phase
$P84_{b,y} = (A94_{b,y}) \cdot (A96_{b,y}) \cdot (A98_{b,y})$
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P84_{b,y}$
Support Squadron Civilians - No Phase
$P85_{b,y} = (A94_{b,y}) \cdot (A97_{b,y})$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P85_{b,y}$
$P218_{b,y} = P218_{b,y} + P83_{b,y} + P84_{b,y} + P85_{b,y}$
Support Tenant Officers Assigned - No Phase
$P86_{b,y} = (A99_{b,y}) \cdot (A100_{b,y}) \cdot (A103_{b,y})$
Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P86_{b,y}$
Support Tenant Airmen Assigned - No Phase
$P87_{b,y} = (A99_{b,y}) \cdot (A101_{b,y}) \cdot (A103_{b,y})$
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P87_{b,y}$
Support Tenant Civilians - No Phase
$P88_{b,y} = (A99_{b,y}) \cdot (A102_{b,y})$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P88_{b,y}$
$P219_{b,y} = P219_{b,y} + P86_{b,y} + P87_{b,y} + P88_{b,y}$
ah

SEGMENT FOUR: MANPOWER



$p = 1$

Air Base Group Personnel by Phase
$P171_{p,b,y} = (A203_{y})\cdot(P33_{p,b,y} + P38_{p,b,y} + P46_{p,b,y} + (A113_{p,y}/P16_{p,y})\cdot P33_{p,b,y}\cdot A56_{p,b,y}\cdot A214_{p,y} + P61_{p,b,y} + P65_{p,b,y} + P69_{p,b,y}$

Air Base Group Officers by Phase
$P172_{p,b,y} = (P171_{p,b,y})\cdot(A204_{b,y})\cdot(A207_{b,y})$

Officers Less Students by Phase
$P50_{p,b,y} = P50_{p,b,y} + P172_{p,b,y}$

Air Base Group Airmen by Phase
$P173_{p,b,y} = (P171_{p,b,y})\cdot(A205_{b,y})\cdot(A207_{b,y})$

Airmen by Phase
$P51_{p,b,y} = P51_{p,b,y} + P173_{p,b,y}$

Air Base Group Civilians by Phase
$P174_{p,b,y} = (P171_{p,b,y})\cdot(A206_{b,y})$

$P220_{b,y} = P220_{b,y} + P172_{p,b,y} + P173_{p,b,y} + P174_{p,b,y}$

Civilians by Phase
$P52_{p,b,y} = P52_{p,b,y} + P174_{p,b,y}$

Hospital (Disp.) Personnel by Phase
$P175_{p,b,y} = (A209_{b,y})\cdot(P33_{p,b,y} + P38_{p,b,y} + P46_{p,b,y}\cdot(A47_{p,b,y} + A48_{p,b,y}) + (A113_{p,y}/P16_{p,y})\cdot P33_{p,b,y}\cdot A56_{p,y}\cdot A214_{p,y} + P61_{p,b,y}\cdot(A67_{b,y} + A68_{b,y}) + P65_{p,b,y}\cdot(A73_{b,y} + A74_{b,y}) + P69_{p,b,y}\cdot(A80_{b,y} + A81_{b,y}) + P171_{p,b,y}\cdot(A204_{b,y} + A205_{b,y}))$

Hospital (Disp.) Officers by Phase
$P178_{p,b,y} = (P175_{p,b,y})\cdot(A210_{b,y})\cdot(A213_{b,y})$

Officers Less Students by Phase
$P50_{p,b,y} = P50_{p,b,y} + P178_{p,b,y}$

Hospital (Disp.) Airmen by Phase
$P179_{p,b,y} = (P175_{p,b,y})\cdot(A211_{b,y})\cdot(A213_{b,y})$

Airmen by Phase
$P51_{p,b,y} = P51_{p,b,y} + P179_{p,b,y}$

Hospital (Disp.) Civilians by Phase
$P180_{p,b,y} = (P175_{p,b,y})\cdot(A212_{b,y})$

$P221_{b,y} = P221_{b,y} + P178_{p,b,y} + P179_{p,b,y} + P180_{p,b,y}$

Civilians by Phase
$P52_{p,b,y} = P52_{p,b,y} + P180_{p,b,y}$

Is $p \geq A7_{y}$?

$p = p + 1$

Air Base Group Personnel - No Phase
$P181_{b,y} = A202_{b,y} + (A203_{y})\cdot(A38_{b,y} + A51_{b,y} + A57_{b,y} + A215_{b,y} + A216_{b,y} + P73_{b,y})$

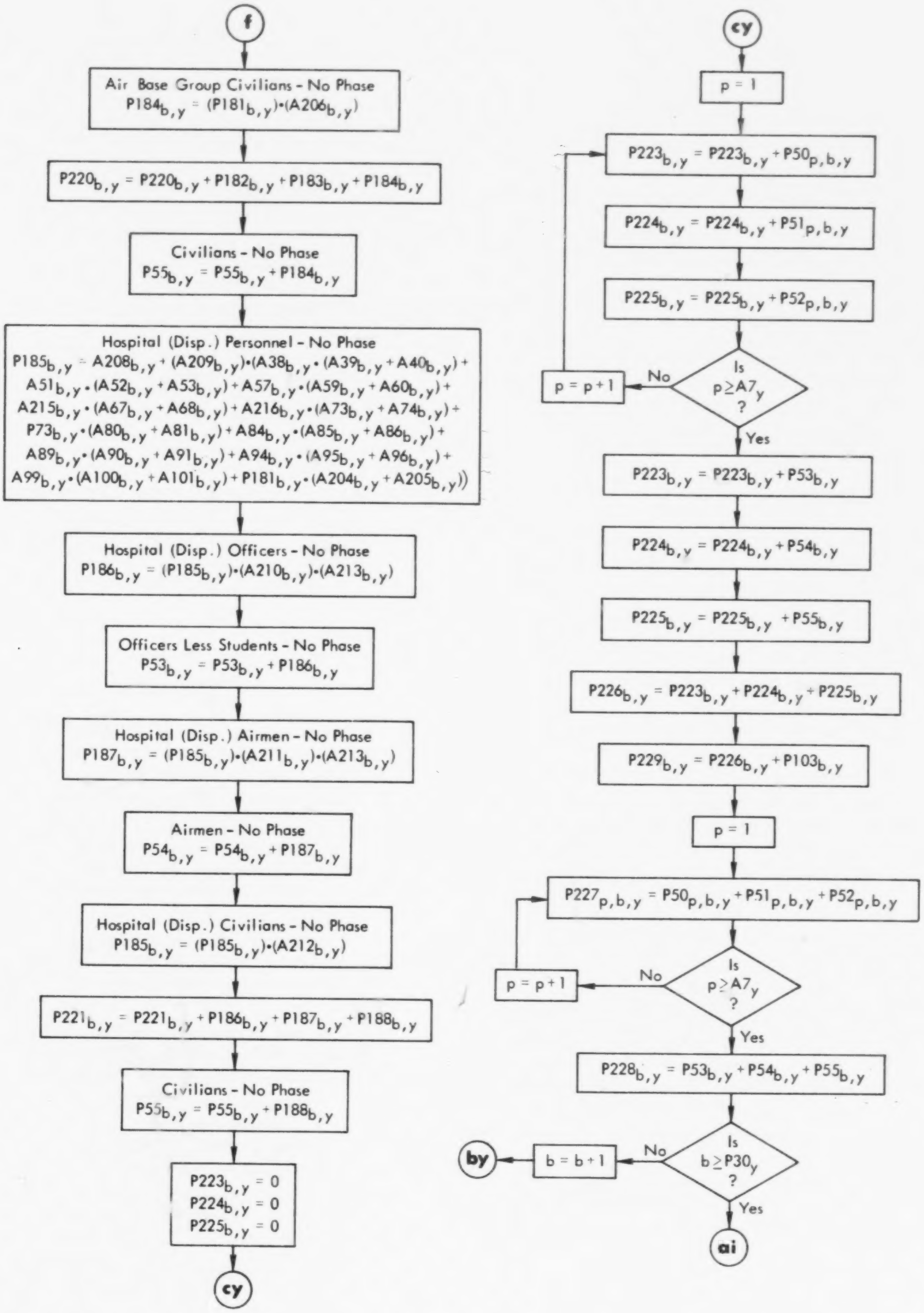
Air Base Group Officers - No Phase
$P182_{b,y} = (P181_{b,y})\cdot(A204_{b,y})\cdot(A207_{b,y})$

Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P182_{b,y}$

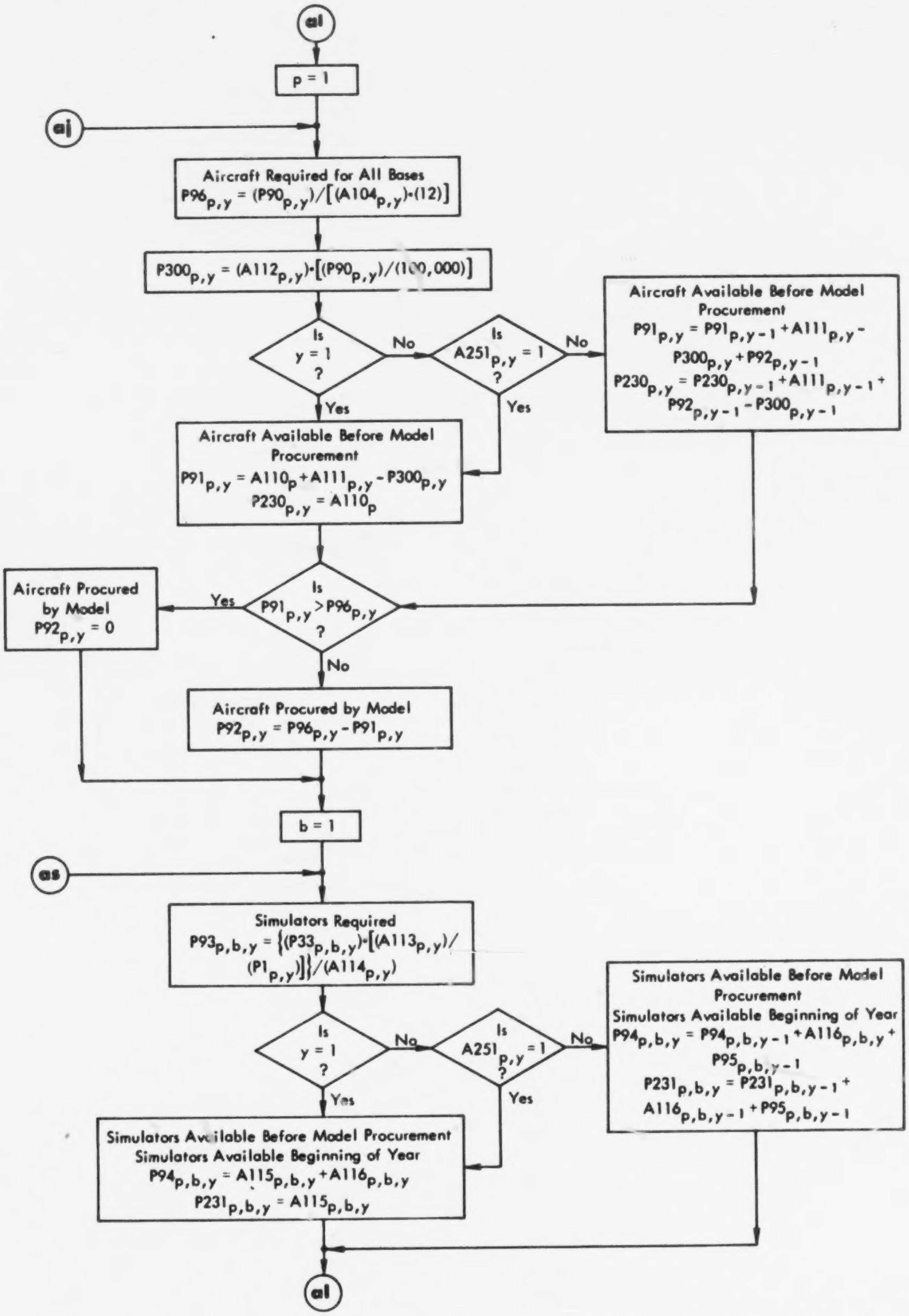
Air Base Group Airmen - No Phase
$P183_{b,y} = (P181_{b,y})\cdot(A205_{b,y})\cdot(A207_{b,y})$

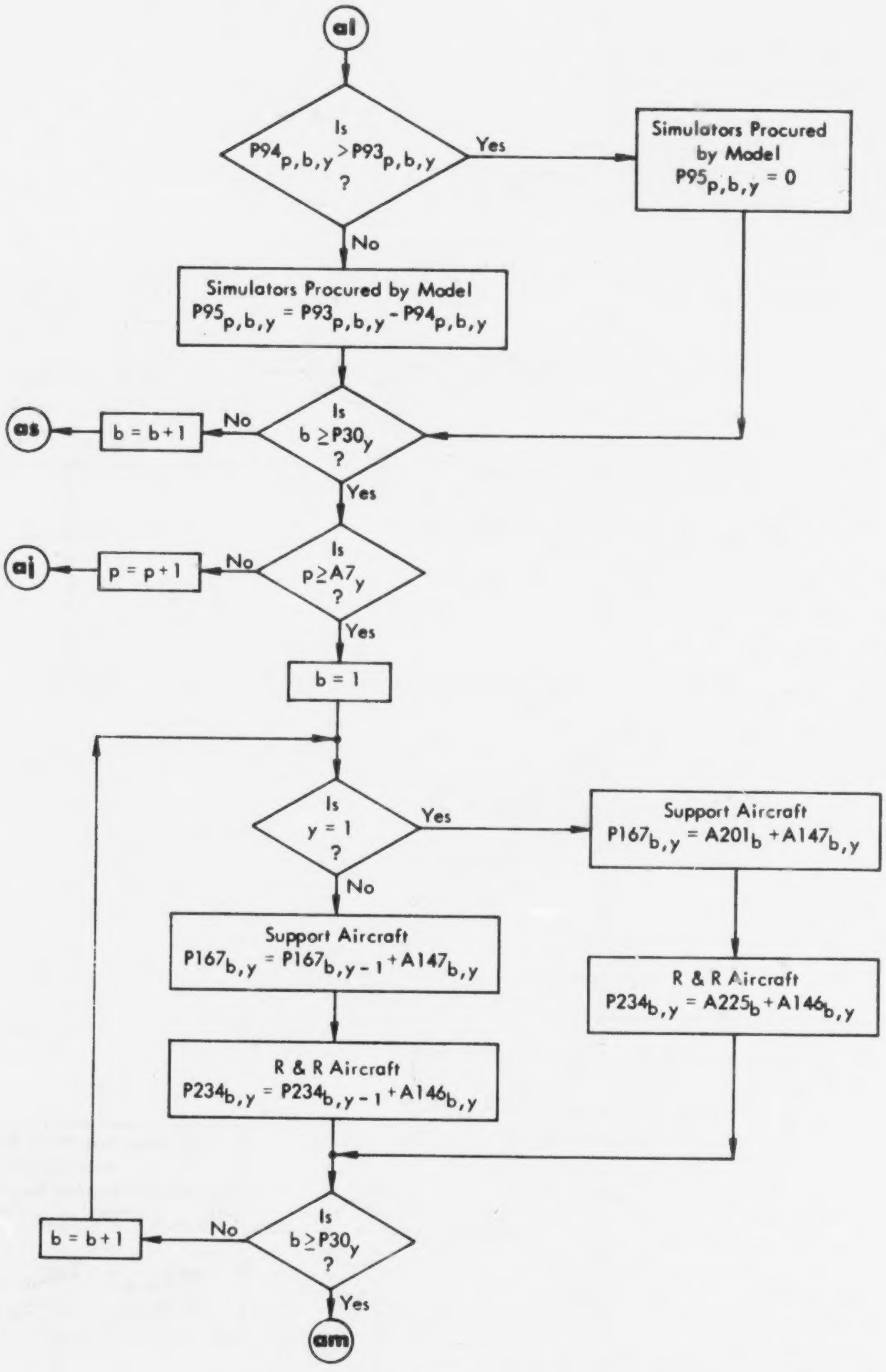
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P183_{b,y}$

SEGMENT FOUR: MANPOWER

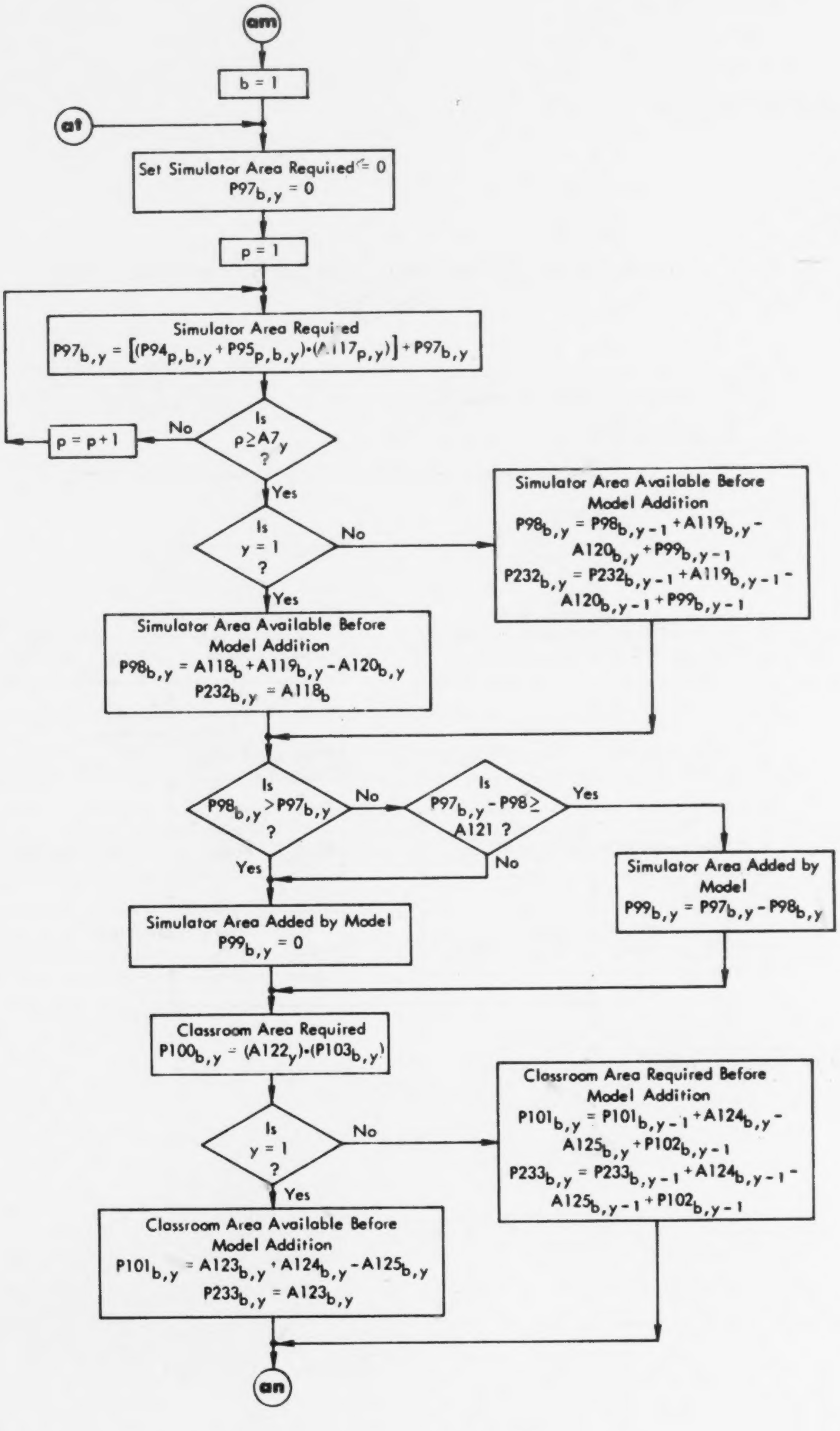

f
Air Base Group Civilians - No Phase
$P184_{b,y} = (P181_{b,y})\cdot(A206_{b,y})$
$P220_{b,y} = P220_{b,y} + P182_{b,y} + P183_{b,y} + P184_{b,y}$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P184_{b,y}$
Hospital (Disp.) Personnel - No Phase
$P185_{b,y} = A208_{b,y} + (A209_{b,y})\cdot(A38_{b,y}\cdot(A39_{b,y} + A40_{b,y}) + A51_{b,y}\cdot(A52_{b,y} + A53_{b,y}) + A57_{b,y}\cdot(A59_{b,y} + A60_{b,y}) + A215_{b,y}\cdot(A67_{b,y} + A68_{b,y}) + A216_{b,y}\cdot(A73_{b,y} + A74_{b,y}) + P73_{b,y}\cdot(A80_{b,y} + A81_{b,y}) + A84_{b,y}\cdot(A85_{b,y} + A86_{b,y}) + A89_{b,y}\cdot(A90_{b,y} + A91_{b,y}) + A94_{b,y}\cdot(A95_{b,y} + A96_{b,y}) + A99_{b,y}\cdot(A100_{b,y} + A101_{b,y}) + P181_{b,y}\cdot(A204_{b,y} + A205_{b,y}))$
Hospital (Disp.) Officers - No Phase
$P186_{b,y} = (P185_{b,y})\cdot(A210_{b,y})\cdot(A213_{b,y})$
Officers Less Students - No Phase
$P53_{b,y} = P53_{b,y} + P186_{b,y}$
Hospital (Disp.) Airmen - No Phase
$P187_{b,y} = (P185_{b,y})\cdot(A211_{b,y})\cdot(A213_{b,y})$
Airmen - No Phase
$P54_{b,y} = P54_{b,y} + P187_{b,y}$
Hospital (Disp.) Civilians - No Phase
$P185_{b,y} = (P185_{b,y})\cdot(A212_{b,y})$
$P221_{b,y} = P221_{b,y} + P186_{b,y} + P187_{b,y} + P188_{b,y}$
Civilians - No Phase
$P55_{b,y} = P55_{b,y} + P188_{b,y}$
$P223_{b,y} = 0$
$P224_{b,y} = 0$
$P225_{b,y} = 0$
cy
cy
$p = 1$
$P223_{b,y} = P223_{b,y} + P50_{p,b,y}$
$P224_{b,y} = P224_{b,y} + P51_{p,b,y}$
$P225_{b,y} = P225_{b,y} + P52_{p,b,y}$
Is $p \geq A7_y$?
No
$p = p + 1$
Yes
$P223_{b,y} = P223_{b,y} + P53_{b,y}$
$P224_{b,y} = P224_{b,y} + P54_{b,y}$
$P225_{b,y} = P225_{b,y} + P55_{b,y}$
$P226_{b,y} = P223_{b,y} + P224_{b,y} + P225_{b,y}$
$P229_{b,y} = P226_{b,y} + P103_{b,y}$
$p = 1$
$P227_{p,b,y} = P50_{p,b,y} + P51_{p,b,y} + P52_{p,b,y}$
Is $p \geq A7_y$?
No
$p = p + 1$
Yes
$P228_{b,y} = P53_{b,y} + P54_{b,y} + P55_{b,y}$
Is $b \geq P30_y$?
No
$b = b + 1$
by
Yes
ai

SEGMENT FIVE: EQUIPMENT

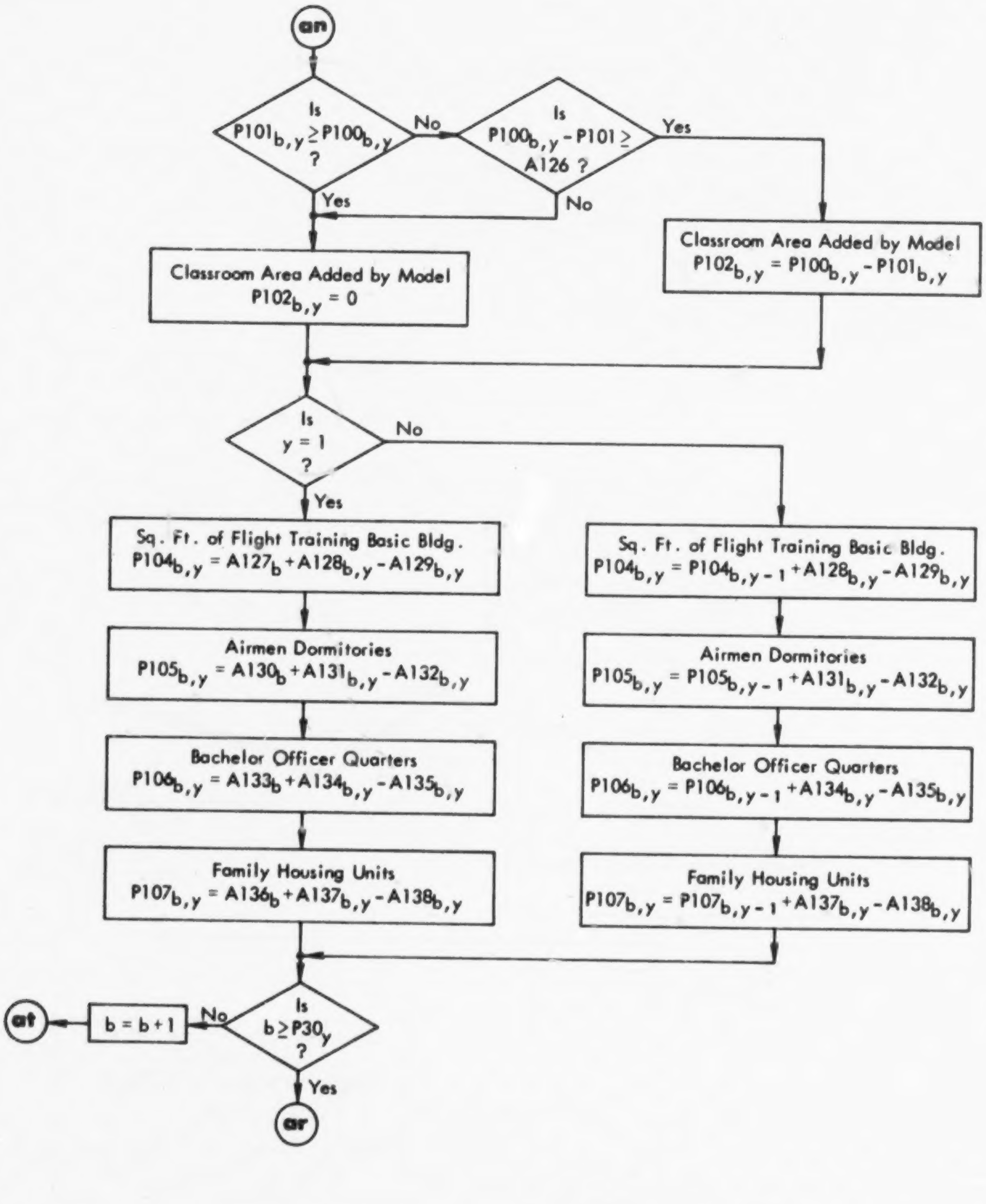

al
p = 1
aj
Aircraft Required for All Bases
$P96_{p,y} = (P90_{p,y})/[(A104_{p,y})\cdot(12)]$
$P300_{p,y} = (A112_{p,y})\cdot[(P90_{p,y})/(100,000)]$
Is $y = 1$?
No
Is $A251_{p,y} = 1$?
No
Aircraft Available Before Model Procurement
$P91_{p,y} = P91_{p,y-1} + A111_{p,y} - P300_{p,y} + P92_{p,y-1}$
$P230_{p,y} = P230_{p,y-1} + A111_{p,y-1} + P92_{p,y-1} - P300_{p,y-1}$
Yes
Yes
Aircraft Available Before Model Procurement
$P91_{p,y} = A110_p + A111_{p,y} - P300_{p,y}$
$P230_{p,y} = A110_p$
Aircraft Procured by Model
$P92_{p,y} = 0$
Yes
Is $P91_{p,y} > P96_{p,y}$?
No
Aircraft Procured by Model
$P92_{p,y} = P96_{p,y} - P91_{p,y}$
b = 1
as
Simulators Required
$P93_{p,b,y} = \{(P33_{p,b,y})\cdot[(A113_{p,y})/(P1_{p,y})]\}/(A114_{p,y})$
Is $y = 1$?
No
Is $A251_{p,y} = 1$?
No
Simulators Available Before Model Procurement
Simulators Available Beginning of Year
$P94_{p,b,y} = P94_{p,b,y-1} + A116_{p,b,y} + P95_{p,b,y-1}$
$P231_{p,b,y} = P231_{p,b,y-1} + A116_{p,b,y-1} + P95_{p,b,y-1}$
Yes
Yes
Simulators Available Before Model Procurement
Simulators Available Beginning of Year
$P94_{p,b,y} = A115_{p,b,y} + A116_{p,b,y}$
$P231_{p,b,y} = A115_{p,b,y}$
al


ai
Is $P94_{p,b,y} > P93_{p,b,y}$?
Yes
Simulators Procured by Model $P95_{p,b,y} = 0$
No
Simulators Procured by Model $P95_{p,b,y} = P93_{p,b,y} - P94_{p,b,y}$
Is $b \geq P30_y$?
No
b = b+1
as
Yes
Is $p \geq A7_y$?
No
p = p+1
aj
Yes
b = 1
Is y = 1 ?
Yes
Support Aircraft $P167_{b,y} = A201_b + A147_{b,y}$
R & R Aircraft $P234_{b,y} = A225_b + A146_{b,y}$
No
Support Aircraft $P167_{b,y} = P167_{b,y-1} + A147_{b,y}$
R & R Aircraft $P234_{b,y} = P234_{b,y-1} + A146_{b,y}$
Is $b \geq P30_y$?
No
b = b+1
Yes
am

SEGMENT SIX: FACILITIES


am
$b = 1$
at
Set Simulator Area Required = 0
$P97_{b,y} = 0$
$p = 1$
Simulator Area Required
$P97_{b,y} = \left[(P94_{p,b,y} + P95_{p,b,y}) \cdot (A117_{p,y})\right] + P97_{b,y}$
Is $p \geq A7_y$?
No
$p = p + 1$
Yes
Is $y = 1$?
No
Simulator Area Available Before Model Addition
$P98_{b,y} = P98_{b,y-1} + A119_{b,y} - A120_{b,y} + P99_{b,y-1}$
$P232_{b,y} = P232_{b,y-1} + A119_{b,y-1} - A120_{b,y-1} + P99_{b,y-1}$
Yes
Simulator Area Available Before Model Addition
$P98_{b,y} = A118_b + A119_{b,y} - A120_{b,y}$
$P232_{b,y} = A118_b$
Is $P98_{b,y} > P97_{b,y}$?
No
Is $P97_{b,y} - P98 \geq A121$?
Yes
No
Yes
Simulator Area Added by Model
$P99_{b,y} = P97_{b,y} - P98_{b,y}$
Simulator Area Added by Model
$P99_{b,y} = 0$
Classroom Area Required
$P100_{b,y} = (A122_y) \cdot (P103_{b,y})$
Is $y = 1$?
No
Classroom Area Required Before Model Addition
$P101_{b,y} = P101_{b,y-1} + A124_{b,y} - A125_{b,y} + P102_{b,y-1}$
$P233_{b,y} = P233_{b,y-1} + A124_{b,y-1} - A125_{b,y-1} + P102_{b,y-1}$
Yes
Classroom Area Available Before Model Addition
$P101_{b,y} = A123_{b,y} + A124_{b,y} - A125_{b,y}$
$P233_{b,y} = A123_{b,y}$
an

SEGMENT SIX: FACILITIES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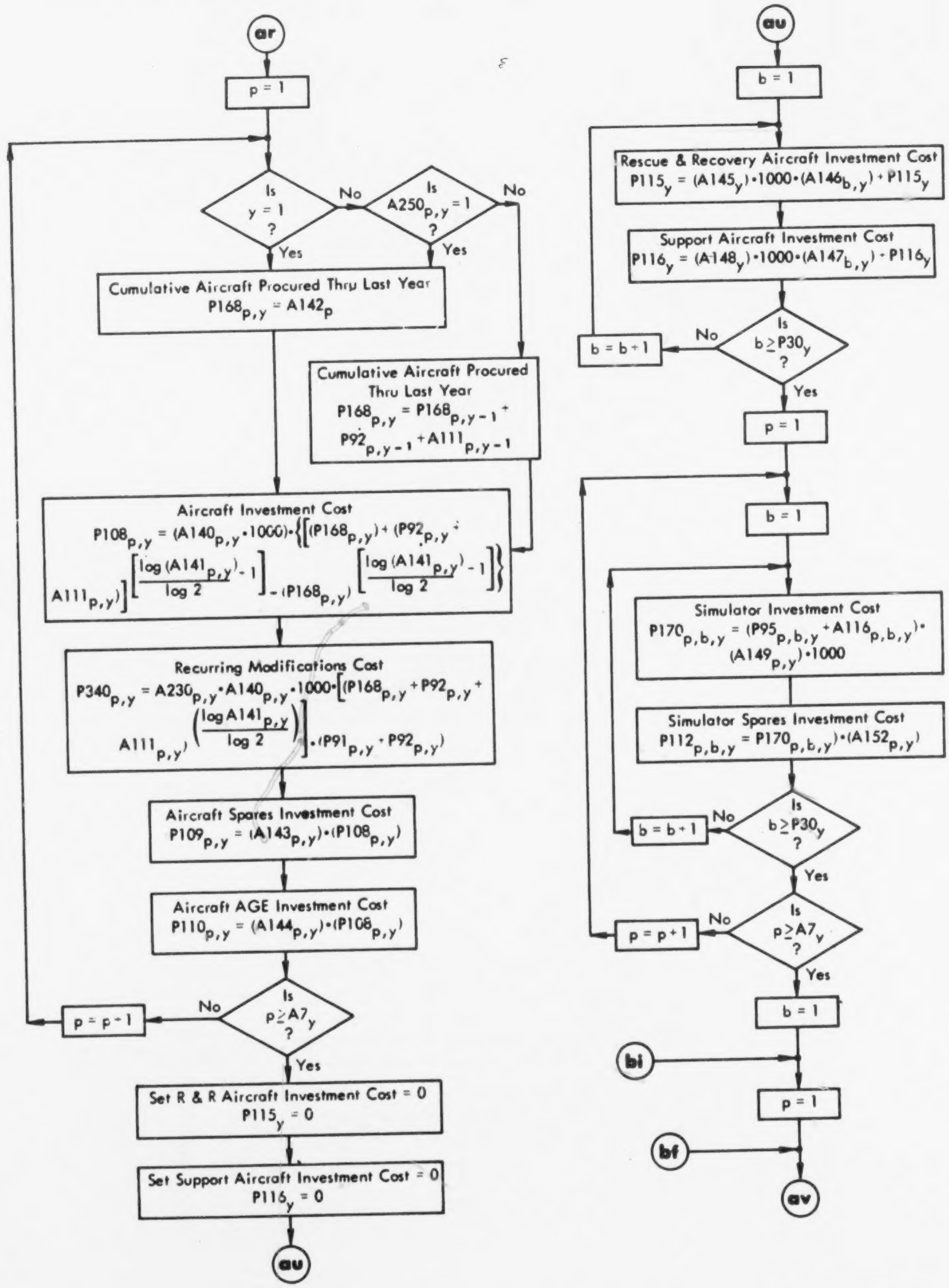
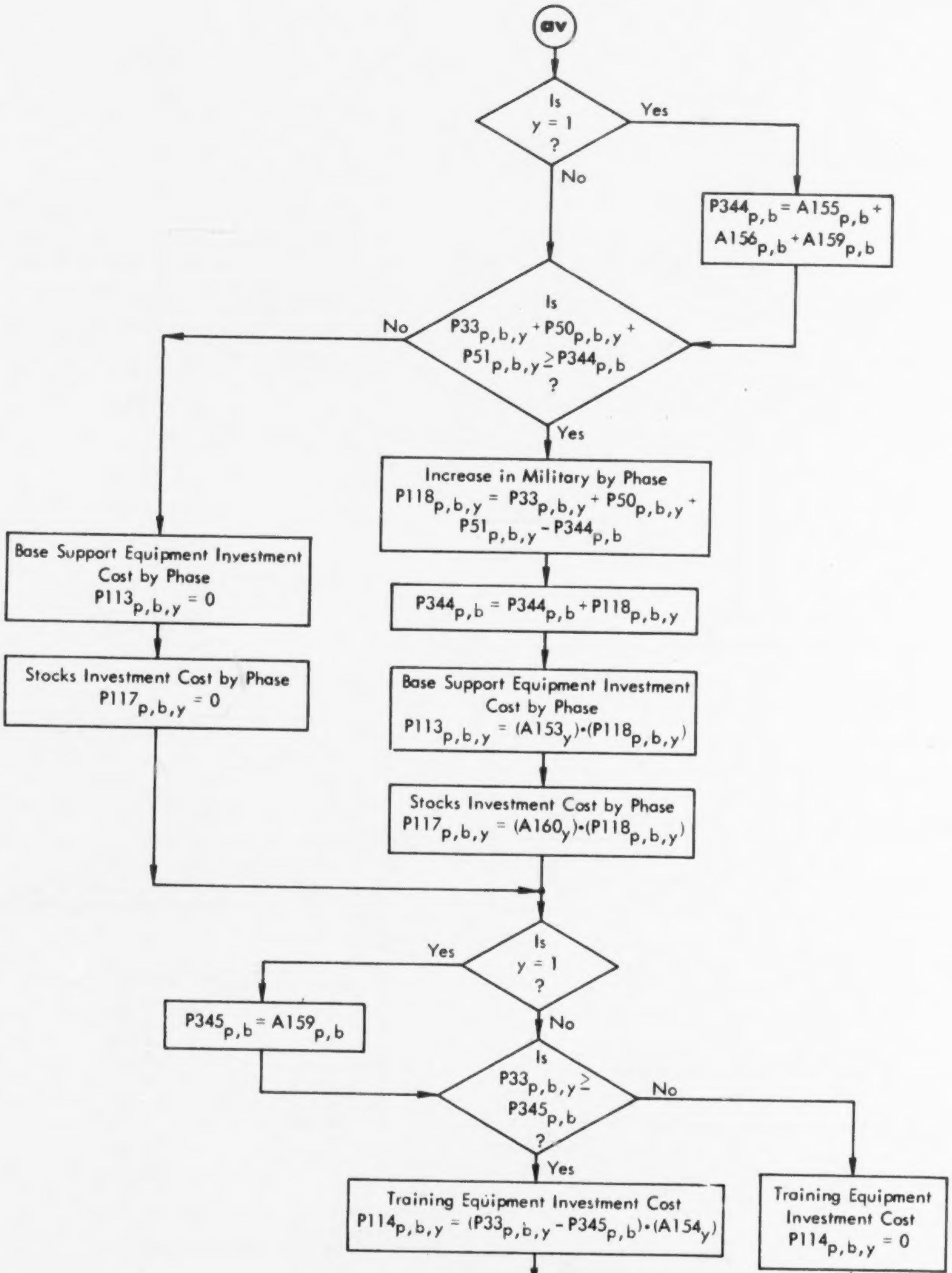
Is $P101_{b,y} \geq P100_{b,y}$?
No
Is $P100_{b,y} - P101 \geq A126$?
Yes
No
Yes
Classroom Area Added by Model $P102_{b,y} = 0$
Classroom Area Added by Model $P102_{b,y} = P100_{b,y} - P101_{b,y}$
Is $y = 1$?
No
Yes
Sq. Ft. of Flight Training Basic Bldg. $P104_{b,y} = A127_{b} + A128_{b,y} - A129_{b,y}$
Sq. Ft. of Flight Training Basic Bldg. $P104_{b,y} = P104_{b,y-1} + A128_{b,y} - A129_{b,y}$
Airmen Dormitories $P105_{b,y} = A130_{b} + A131_{b,y} - A132_{b,y}$
Airmen Dormitories $P105_{b,y} = P105_{b,y-1} + A131_{b,y} - A132_{b,y}$
Bachelor Officer Quarters $P106_{b,y} = A133_{b} + A134_{b,y} - A135_{b,y}$
Bachelor Officer Quarters $P106_{b,y} = P106_{b,y-1} + A134_{b,y} - A135_{b,y}$
Family Housing Units $P107_{b,y} = A136_{b} + A137_{b,y} - A138_{b,y}$
Family Housing Units $P107_{b,y} = P107_{b,y-1} + A137_{b,y} - A138_{b,y}$
Is $b \geq P30_{y}$?
No
$b = b + 1$
at
Yes
ar

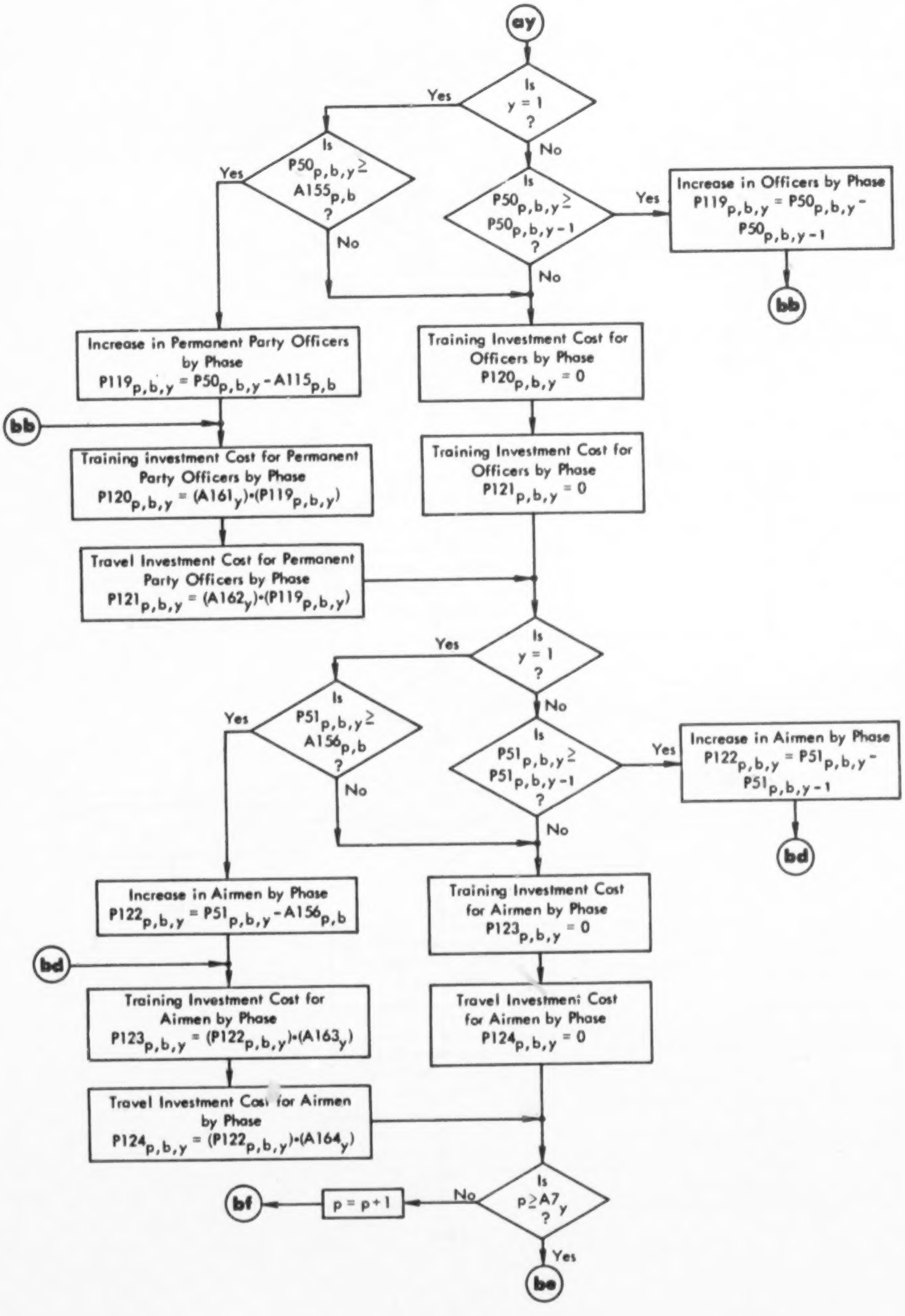
SEGMENT SEVEN: COST


ar
$p = 1$
Is $y = 1$?
No
Yes
Is $A250_{p,y} = 1$?
No
Yes
Cumulative Aircraft Procured Thru Last Year
$P168_{p,y} = A142_p$
Cumulative Aircraft Procured Thru Last Year
$P168_{p,y} = P168_{p,y-1} + P92_{p,y-1} + A111_{p,y-1}$
Aircraft Investment Cost
$P108_{p,y} = (A140_{p,y} \cdot 1000) \cdot \left\{ \left[(P168_{p,y}) + (P92_{p,y} + A111_{p,y}) \right] \left[\frac{\log (A141_{p,y})}{\log 2} - 1 \right] - (P168_{p,y}) \left[\frac{\log (A141_{p,y})}{\log 2} - 1 \right] \right\}$
Recurring Modifications Cost
$P340_{p,y} = A230_{p,y} \cdot A140_{p,y} \cdot 1000 \cdot \left[(P168_{p,y} + P92_{p,y} + A111_{p,y}) \left(\frac{\log A141_{p,y}}{\log 2} \right) \right] \cdot (P91_{p,y} + P92_{p,y})$
Aircraft Spares Investment Cost
$P109_{p,y} = (A143_{p,y}) \cdot (P108_{p,y})$
Aircraft AGE Investment Cost
$P110_{p,y} = (A144_{p,y}) \cdot (P108_{p,y})$
Is $p \geq A7_y$?
No
$p = p + 1$
Yes
Set R & R Aircraft Investment Cost = 0
$P115_y = 0$
Set Support Aircraft Investment Cost = 0
$P116_y = 0$
au
au
$b = 1$
Rescue & Recovery Aircraft Investment Cost
$P115_y = (A145_y) \cdot 1000 \cdot (A146_{b,y}) + P115_y$
Support Aircraft Investment Cost
$P116_y = (A148_y) \cdot 1000 \cdot (A147_{b,y}) + P116_y$
Is $b \geq P30_y$?
No
$b = b + 1$
Yes
$p = 1$
$b = 1$
Simulator Investment Cost
$P170_{p,b,y} = (P95_{p,b,y} + A116_{p,b,y}) \cdot (A149_{p,y}) \cdot 1000$
Simulator Spares Investment Cost
$P112_{p,b,y} = P170_{p,b,y}) \cdot (A152_{p,y})$
Is $b \geq P30_y$?
No
$b = b + 1$
Yes
Is $p \geq A7_y$?
No
$p = p + 1$
Yes
$b = 1$
bi
$p = 1$
bf
av

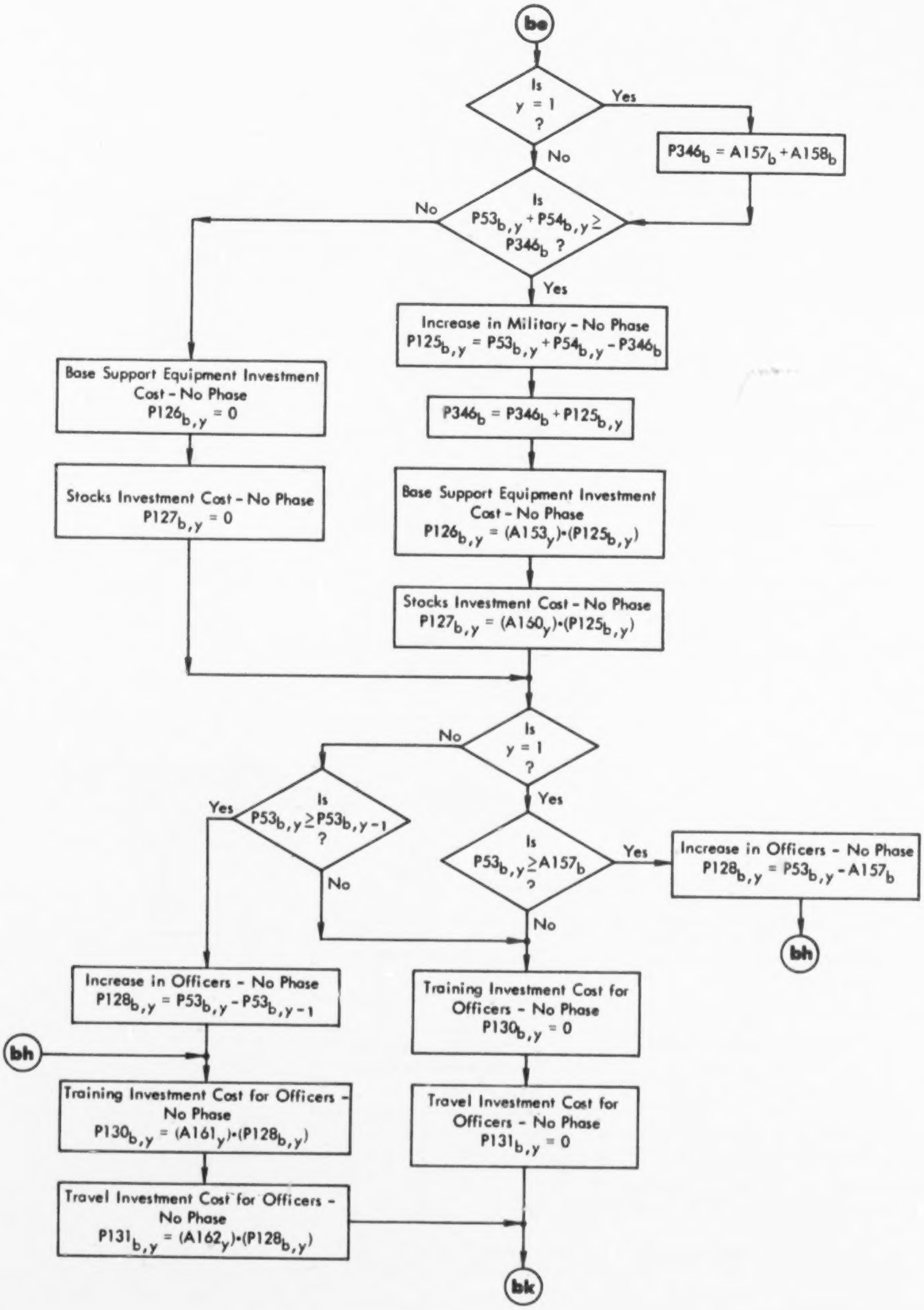
SEGMENT SEVEN: COST.


av
Is $y = 1$?
Yes
No
$P344_{p,b} = A155_{p,b} + A156_{p,b} + A159_{p,b}$
Is $P33_{p,b,y} + P50_{p,b,y} + P51_{p,b,y} \geq P344_{p,b}$?
No
Yes
Increase in Military by Phase
$P118_{p,b,y} = P33_{p,b,y} + P50_{p,b,y} + P51_{p,b,y} - P344_{p,b}$
$P344_{p,b} = P344_{p,b} + P118_{p,b,y}$
Base Support Equipment Investment Cost by Phase
$P113_{p,b,y} = (A153_y)\cdot(P118_{p,b,y})$
Stocks Investment Cost by Phase
$P117_{p,b,y} = (A160_y)\cdot(P118_{p,b,y})$
Base Support Equipment Investment Cost by Phase
$P113_{p,b,y} = 0$
Stocks Investment Cost by Phase
$P117_{p,b,y} = 0$
Is $y = 1$?
Yes
No
$P345_{p,b} = A159_{p,b}$
Is $P33_{p,b,y} \geq P345_{p,b}$?
No
Yes
Training Equipment Investment Cost
$P114_{p,b,y} = (P33_{p,b,y} - P345_{p,b})\cdot(A154_y)$
Training Equipment Investment Cost
$P114_{p,b,y} = 0$
$P345_{p,b} = P33_{p,b,y}$
ay

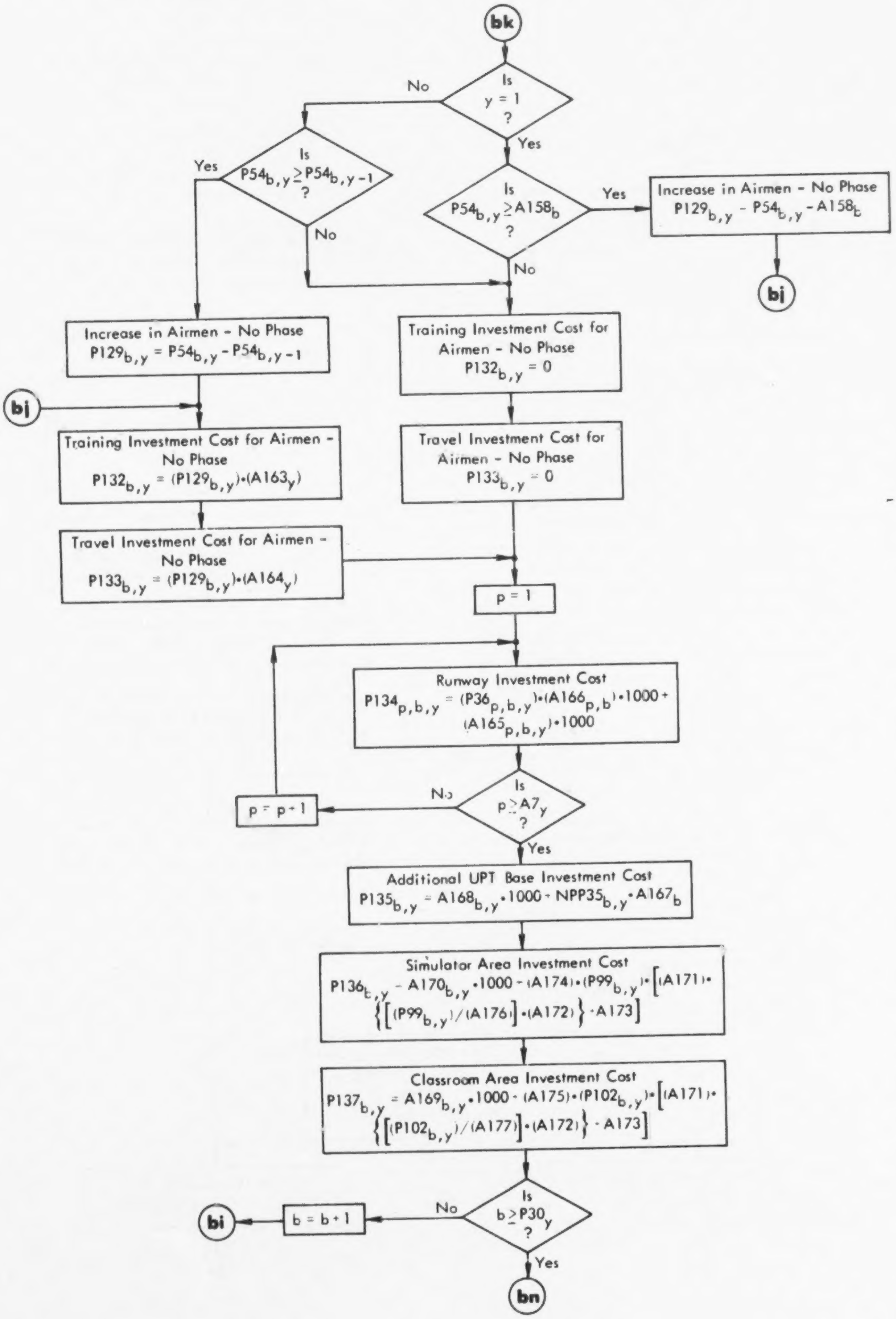
SEGMENT SEVEN: COST


ay
Is $y = 1$?
Yes
No
Is $P50_{p,b,y} \geq A155_{p,b}$?
Yes
No
Is $P50_{p,b,y} \geq P50_{p,b,y-1}$?
Yes
No
Increase in Officers by Phase $P119_{p,b,y} = P50_{p,b,y} - P50_{p,b,y-1}$
bb
Increase in Permanent Party Officers by Phase $P119_{p,b,y} = P50_{p,b,y} - A115_{p,b}$
Training Investment Cost for Officers by Phase $P120_{p,b,y} = 0$
bb
Training investment Cost for Permanent Party Officers by Phase $P120_{p,b,y} = (A161_y) \cdot (P119_{p,b,y})$
Training Investment Cost for Officers by Phase $P121_{p,b,y} = 0$
Travel Investment Cost for Permanent Party Officers by Phase $P121_{p,b,y} = (A162_y) \cdot (P119_{p,b,y})$
Is $y = 1$?
Yes
No
Is $P51_{p,b,y} \geq A156_{p,b}$?
Yes
No
Is $P51_{p,b,y} \geq P51_{p,b,y-1}$?
Yes
No
Increase in Airmen by Phase $P122_{p,b,y} = P51_{p,b,y} - P51_{p,b,y-1}$
bd
Increase in Airmen by Phase $P122_{p,b,y} = P51_{p,b,y} - A156_{p,b}$
Training Investment Cost for Airmen by Phase $P123_{p,b,y} = 0$
bd
Training Investment Cost for Airmen by Phase $P123_{p,b,y} = (P122_{p,b,y}) \cdot (A163_y)$
Travel Investment Cost for Airmen by Phase $P124_{p,b,y} = 0$
Travel Investment Cost for Airmen by Phase $P124_{p,b,y} = (P122_{p,b,y}) \cdot (A164_y)$
Is $p \geq A7_y$?
No
$p = p + 1$
bf
Yes
be

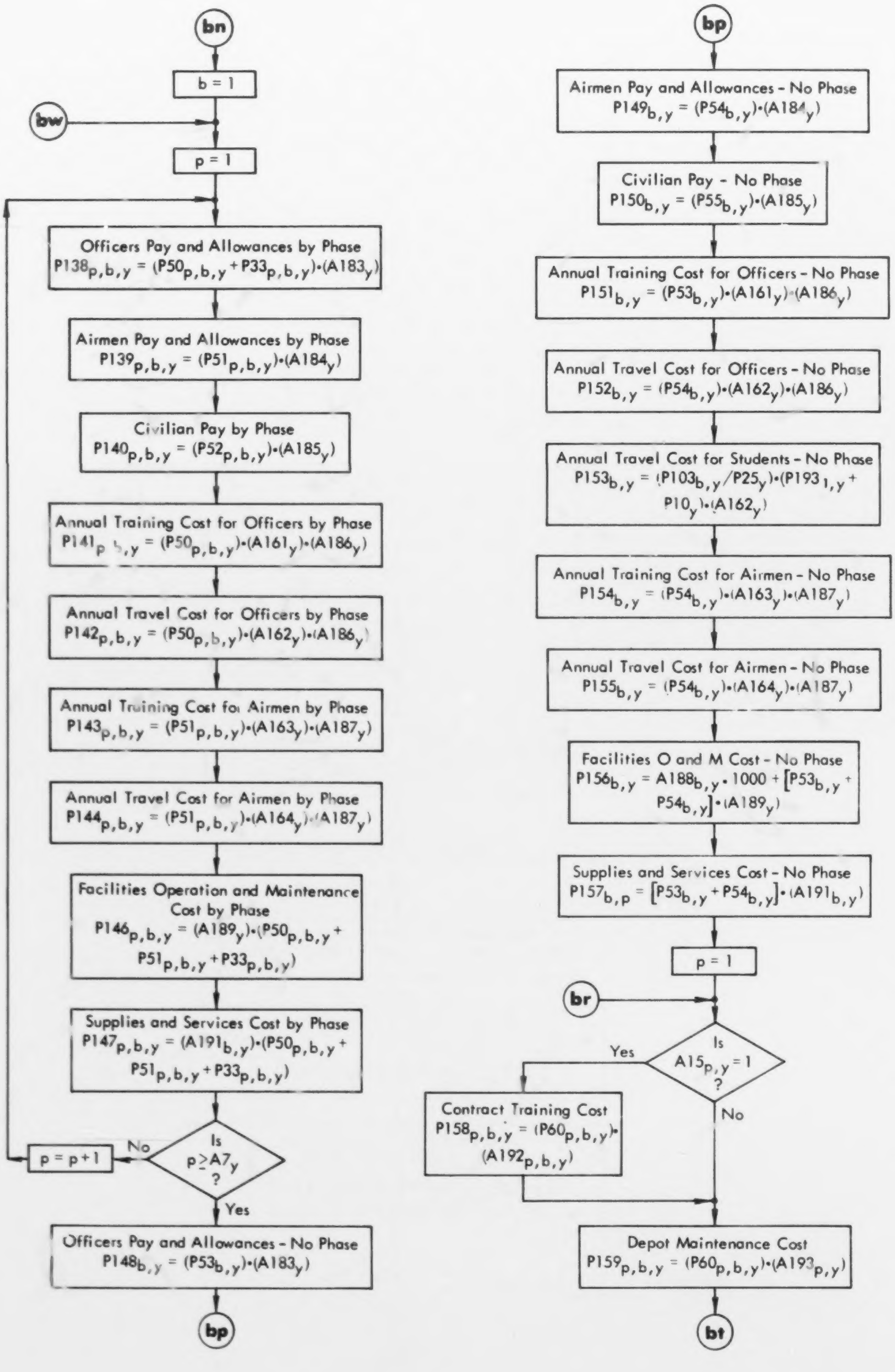
SEGMENT SEVEN: COST


be
Is $y = 1$?
Yes
No
$P346_b = A157_b + A158_b$
Is $P53_{b,y} + P54_{b,y} \geq P346_b$?
No
Yes
Increase in Military - No Phase $P125_{b,y} = P53_{b,y} + P54_{b,y} - P346_b$
$P346_b = P346_b + P125_{b,y}$
Base Support Equipment Investment Cost - No Phase $P126_{b,y} = (A153_y) \cdot (P125_{b,y})$
Stocks Investment Cost - No Phase $P127_{b,y} = (A160_y) \cdot (P125_{b,y})$
Base Support Equipment Investment Cost - No Phase $P126_{b,y} = 0$
Stocks Investment Cost - No Phase $P127_{b,y} = 0$
Is $y = 1$?
No
Yes
Is $P53_{b,y} \geq P53_{b,y-1}$?
Yes
No
Is $P53_{b,y} \geq A157_b$?
Yes
No
Increase in Officers - No Phase $P128_{b,y} = P53_{b,y} - A157_b$
bh
Increase in Officers - No Phase $P128_{b,y} = P53_{b,y} - P53_{b,y-1}$
bh
Training Investment Cost for Officers - No Phase $P130_{b,y} = (A161_y) \cdot (P128_{b,y})$
Travel Investment Cost for Officers - No Phase $P131_{b,y} = (A162_y) \cdot (P128_{b,y})$
Training Investment Cost for Officers - No Phase $P130_{b,y} = 0$
Travel Investment Cost for Officers - No Phase $P131_{b,y} = 0$
bk

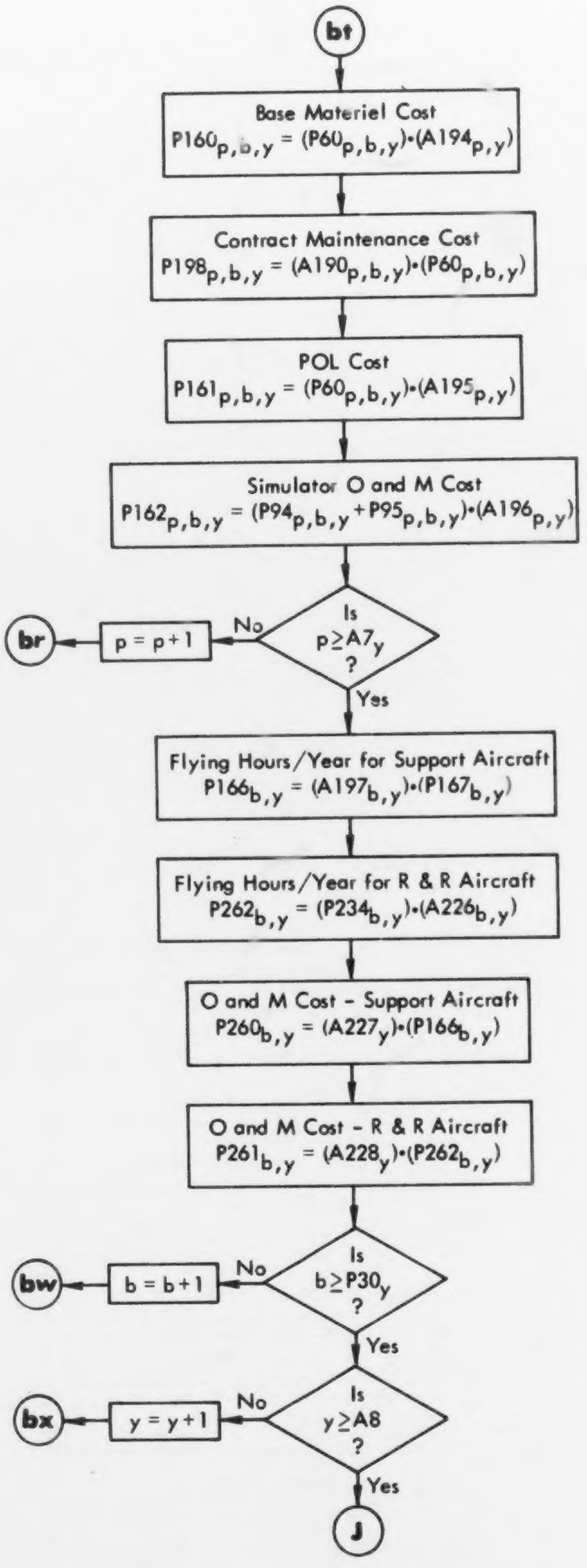
SEGMENT SEVEN: COST

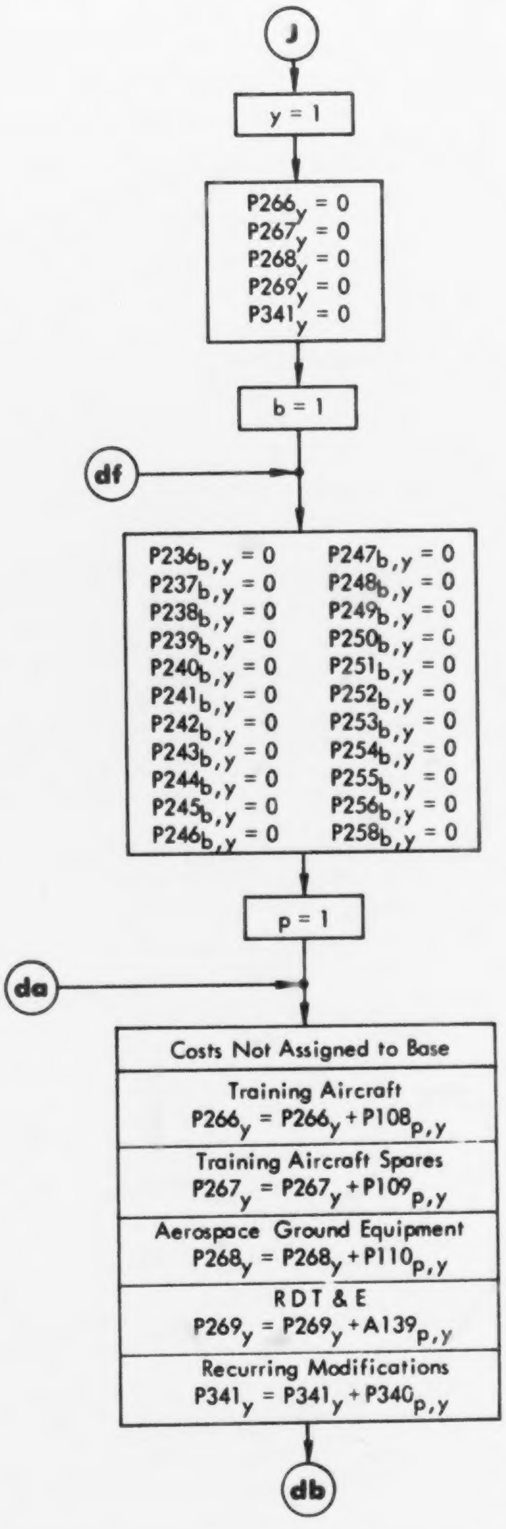

bk
Is $y = 1$?
No
Yes
Is $P54_{b,y} \geq P54_{b,y-1}$?
Yes
No
Is $P54_{b,y} \geq A158_b$?
Yes
No
Increase in Airmen - No Phase
$P129_{b,y} = P54_{b,y} - A158_b$
bi
Increase in Airmen - No Phase
$P129_{b,y} = P54_{b,y} - P54_{b,y-1}$
Training Investment Cost for Airmen - No Phase
$P132_{b,y} = 0$
bj
Training Investment Cost for Airmen - No Phase
$P132_{b,y} = (P129_{b,y}) \cdot (A163_y)$
Travel Investment Cost for Airmen - No Phase
$P133_{b,y} = 0$
Travel Investment Cost for Airmen - No Phase
$P133_{b,y} = (P129_{b,y}) \cdot (A164_y)$
$p = 1$
Runway Investment Cost
$P134_{p,b,y} = (P36_{p,b,y}) \cdot (A166_{p,b}) \cdot 1000 + (A165_{p,b,y}) \cdot 1000$
Is $p \geq A7_y$?
No
$p = p + 1$
Yes
Additional UPT Base Investment Cost
$P135_{b,y} = A168_{b,y} \cdot 1000 + NPP35_{b,y} \cdot A167_b$
Simulator Area Investment Cost
$P136_{b,y} = A170_{b,y} \cdot 1000 + (A174) \cdot (P99_{b,y}) \cdot \left[(A171) \cdot \left\{ \left[(P99_{b,y}) / (A176) \right] \cdot (A172) \right\} \cdot A173 \right]$
Classroom Area Investment Cost
$P137_{b,y} = A169_{b,y} \cdot 1000 + (A175) \cdot (P102_{b,y}) \cdot \left[(A171) \cdot \left\{ \left[(P102_{b,y}) / (A177) \right] \cdot (A172) \right\} \cdot A173 \right]$
Is $b \geq P30_y$?
No
$b = b + 1$
bi
Yes
bn

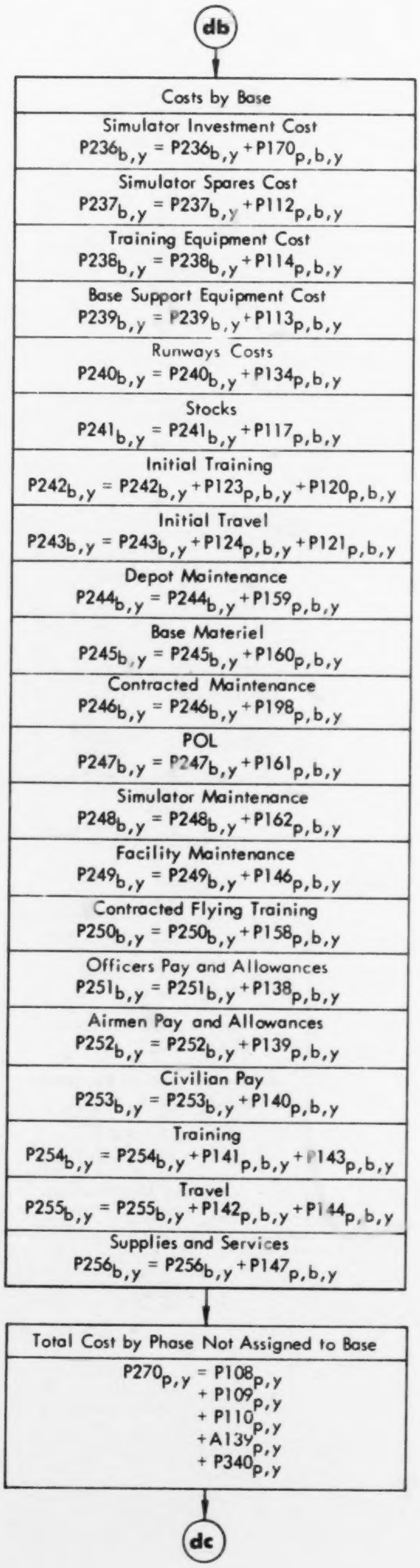
SEGMENT SEVEN: COST

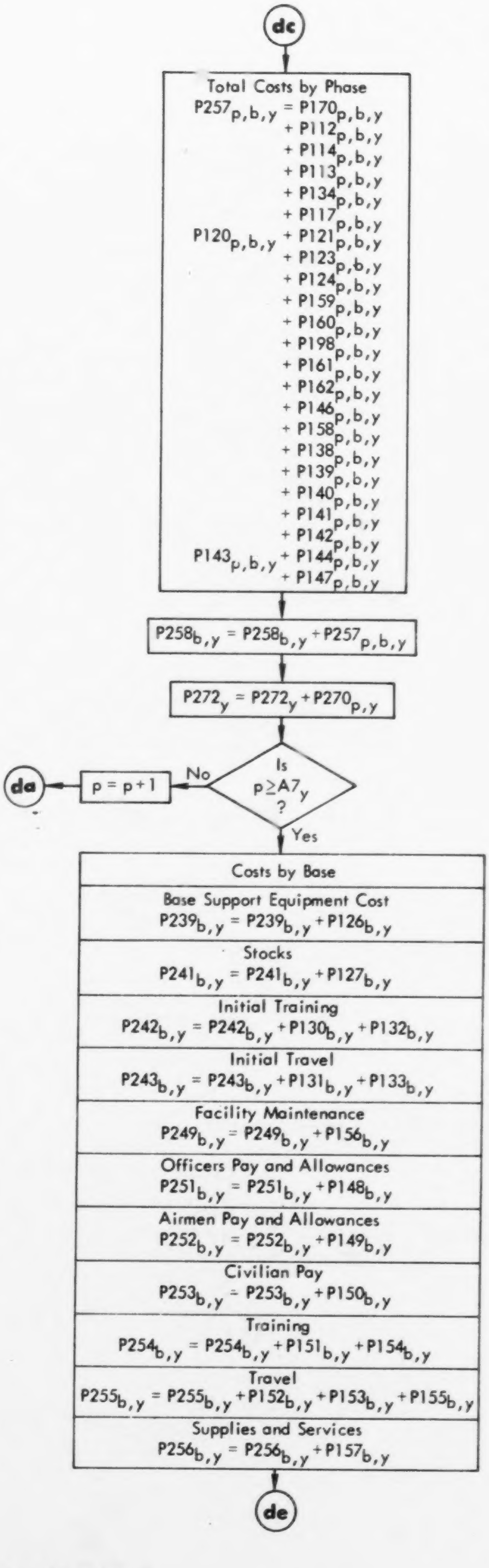

bn
b = 1
bw
p = 1
Officers Pay and Allowances by Phase
$P138_{p,b,y} = (P50_{p,b,y} + P33_{p,b,y})\cdot(A183_y)$
Airmen Pay and Allowances by Phase
$P139_{p,b,y} = (P51_{p,b,y})\cdot(A184_y)$
Civilian Pay by Phase
$P140_{p,b,y} = (P52_{p,b,y})\cdot(A185_y)$
Annual Training Cost for Officers by Phase
$P141_{p,b,y} = (P50_{p,b,y})\cdot(A161_y)\cdot(A186_y)$
Annual Travel Cost for Officers by Phase
$P142_{p,b,y} = (P50_{p,b,y})\cdot(A162_y)\cdot(A186_y)$
Annual Training Cost for Airmen by Phase
$P143_{p,b,y} = (P51_{p,b,y})\cdot(A163_y)\cdot(A187_y)$
Annual Travel Cost for Airmen by Phase
$P144_{p,b,y} = (P51_{p,b,y})\cdot(A164_y)\cdot(A187_y)$
Facilities Operation and Maintenance Cost by Phase
$P146_{p,b,y} = (A189_y)\cdot(P50_{p,b,y} + P51_{p,b,y} + P33_{p,b,y})$
Supplies and Services Cost by Phase
$P147_{p,b,y} = (A191_{b,y})\cdot(P50_{p,b,y} + P51_{p,b,y} + P33_{p,b,y})$
Is $p \geq A7_y$?
No
$p = p + 1$
Yes
Officers Pay and Allowances - No Phase
$P148_{b,y} = (P53_{b,y})\cdot(A183_y)$
bp
bp
Airmen Pay and Allowances - No Phase
$P149_{b,y} = (P54_{b,y})\cdot(A184_y)$
Civilian Pay - No Phase
$P150_{b,y} = (P55_{b,y})\cdot(A185_y)$
Annual Training Cost for Officers - No Phase
$P151_{b,y} = (P53_{b,y})\cdot(A161_y)\cdot(A186_y)$
Annual Travel Cost for Officers - No Phase
$P152_{b,y} = (P54_{b,y})\cdot(A162_y)\cdot(A186_y)$
Annual Travel Cost for Students - No Phase
$P153_{b,y} = (P103_{b,y}/P25_y)\cdot(P193_{1,y} + P10_y)\cdot(A162_y)$
Annual Training Cost for Airmen - No Phase
$P154_{b,y} = (P54_{b,y})\cdot(A163_y)\cdot(A187_y)$
Annual Travel Cost for Airmen - No Phase
$P155_{b,y} = (P54_{b,y})\cdot(A164_y)\cdot(A187_y)$
Facilities O and M Cost - No Phase
$P156_{b,y} = A188_{b,y}\cdot 1000 + [P53_{b,y} + P54_{b,y}]\cdot(A189_y)$
Supplies and Services Cost - No Phase
$P157_{b,p} = [P53_{b,y} + P54_{b,y}]\cdot(A191_{b,y})$
p = 1
br
Is $A15_{p,y} = 1$?
Yes
No
Contract Training Cost
$P158_{p,b,y} = (P60_{p,b,y})\cdot(A192_{p,b,y})$
Depot Maintenance Cost
$P159_{p,b,y} = (P60_{p,b,y})\cdot(A193_{p,y})$
bt

SEGMENT SEVEN: COST

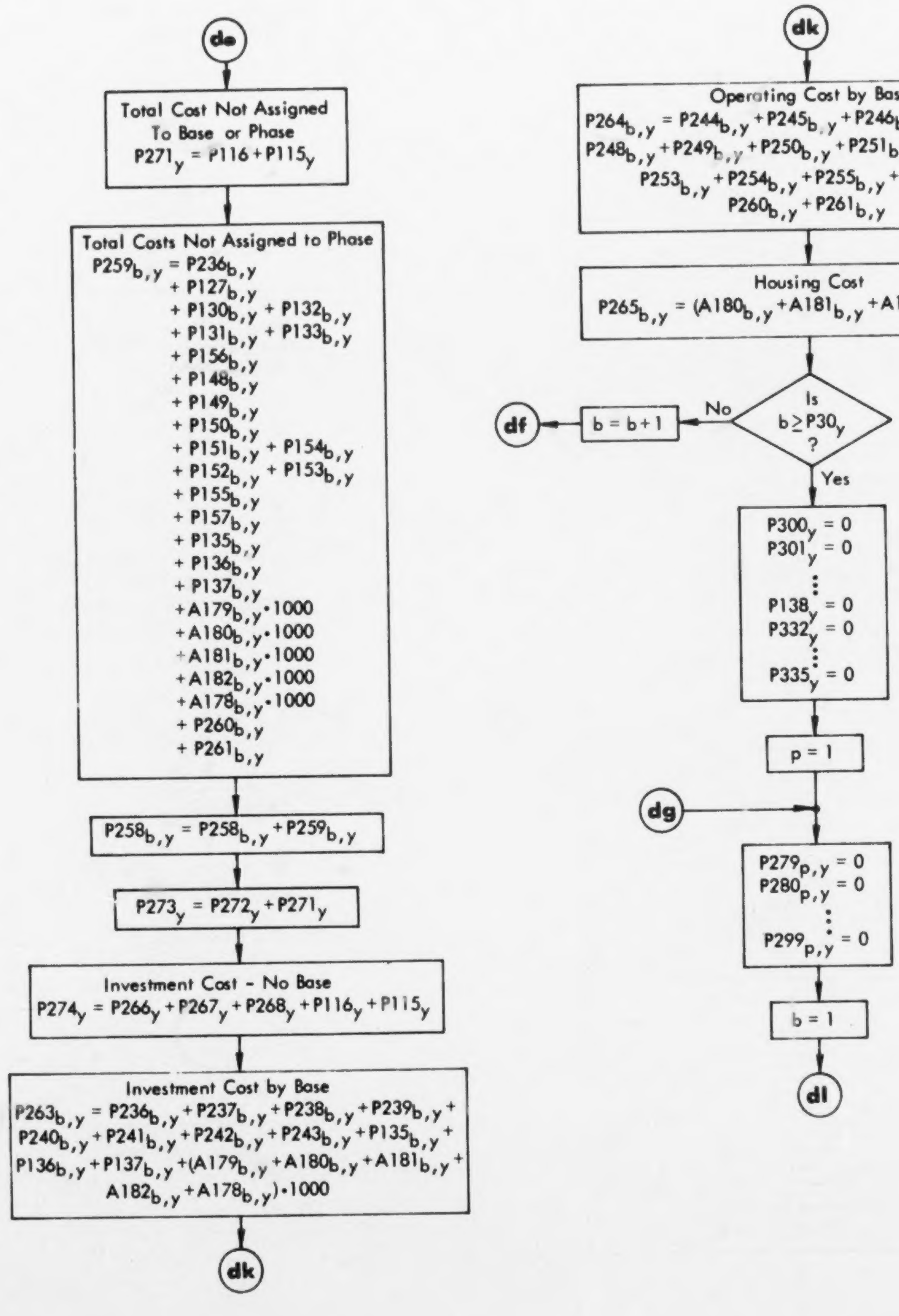

bt
Base Materiel Cost
$P160_{p,b,y} = (P60_{p,b,y})\cdot(A194_{p,y})$
Contract Maintenance Cost
$P198_{p,b,y} = (A190_{p,b,y})\cdot(P60_{p,b,y})$
POL Cost
$P161_{p,b,y} = (P60_{p,b,y})\cdot(A195_{p,y})$
Simulator O and M Cost
$P162_{p,b,y} = (P94_{p,b,y} + P95_{p,b,y})\cdot(A196_{p,y})$
Is $p \geq A7_y$?
No
$p = p+1$
br
Yes
Flying Hours/Year for Support Aircraft
$P166_{b,y} = (A197_{b,y})\cdot(P167_{b,y})$
Flying Hours/Year for R & R Aircraft
$P262_{b,y} = (P234_{b,y})\cdot(A226_{b,y})$
O and M Cost - Support Aircraft
$P260_{b,y} = (A227_y)\cdot(P166_{b,y})$
O and M Cost - R & R Aircraft
$P261_{b,y} = (A228_y)\cdot(P262_{b,y})$
Is $b \geq P30_y$?
No
$b = b+1$
bw
Yes
Is $y \geq A8$?
No
$y = y+1$
bx
Yes
J


J
$y = 1$
$P266_y = 0$
$P267_y = 0$
$P268_y = 0$
$P269_y = 0$
$P341_y = 0$
$b = 1$
df
$P236_{b,y} = 0$
$P237_{b,y} = 0$
$P238_{b,y} = 0$
$P239_{b,y} = 0$
$P240_{b,y} = 0$
$P241_{b,y} = 0$
$P242_{b,y} = 0$
$P243_{b,y} = 0$
$P244_{b,y} = 0$
$P245_{b,y} = 0$
$P246_{b,y} = 0$
$P247_{b,y} = 0$
$P248_{b,y} = 0$
$P249_{b,y} = 0$
$P250_{b,y} = 0$
$P251_{b,y} = 0$
$P252_{b,y} = 0$
$P253_{b,y} = 0$
$P254_{b,y} = 0$
$P255_{b,y} = 0$
$P256_{b,y} = 0$
$P258_{b,y} = 0$
$p = 1$
da
Costs Not Assigned to Base
Training Aircraft
$P266_y = P266_y + P108_{p,y}$
Training Aircraft Spares
$P267_y = P267_y + P109_{p,y}$
Aerospace Ground Equipment
$P268_y = P268_y + P110_{p,y}$
RDT & E
$P269_y = P269_y + A139_{p,y}$
Recurring Modifications
$P341_y = P341_y + P340_{p,y}$
db

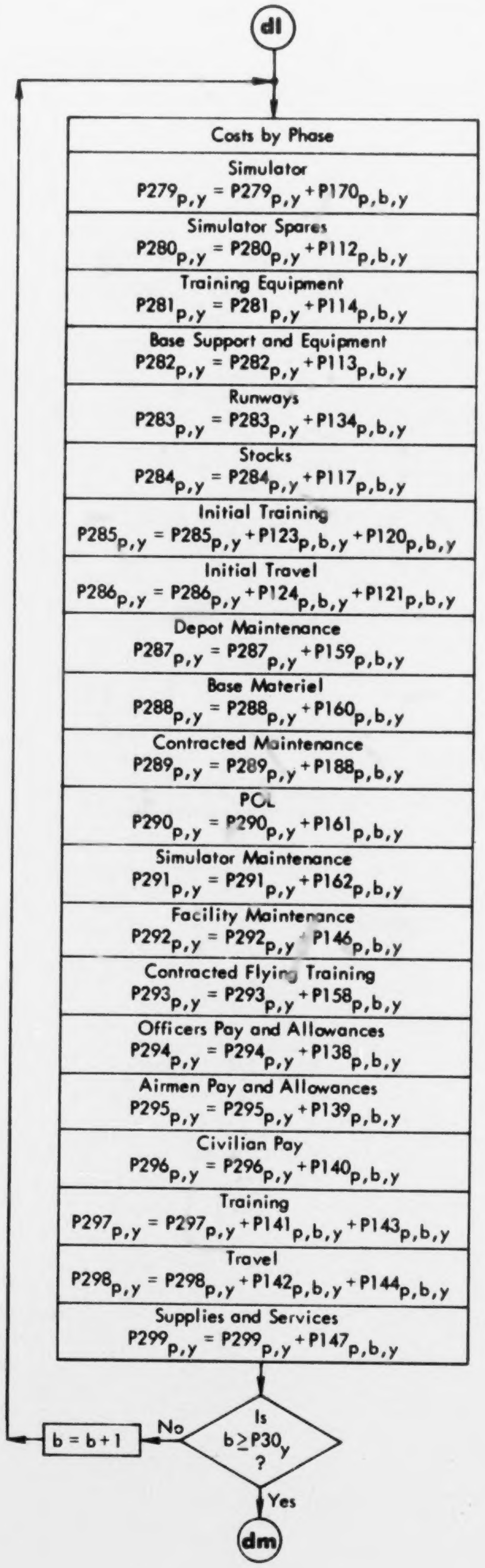

db
Costs by Base
Simulator Investment Cost
$P236_{b,y} = P236_{b,y} + P170_{p,b,y}$
Simulator Spares Cost
$P237_{b,y} = P237_{b,y} + P112_{p,b,y}$
Training Equipment Cost
$P238_{b,y} = P238_{b,y} + P114_{p,b,y}$
Base Support Equipment Cost
$P239_{b,y} = P239_{b,y} + P113_{p,b,y}$
Runways Costs
$P240_{b,y} = P240_{b,y} + P134_{p,b,y}$
Stocks
$P241_{b,y} = P241_{b,y} + P117_{p,b,y}$
Initial Training
$P242_{b,y} = P242_{b,y} + P123_{p,b,y} + P120_{p,b,y}$
Initial Travel
$P243_{b,y} = P243_{b,y} + P124_{p,b,y} + P121_{p,b,y}$
Depot Maintenance
$P244_{b,y} = P244_{b,y} + P159_{p,b,y}$
Base Materiel
$P245_{b,y} = P245_{b,y} + P160_{p,b,y}$
Contracted Maintenance
$P246_{b,y} = P246_{b,y} + P198_{p,b,y}$
POL
$P247_{b,y} = P247_{b,y} + P161_{p,b,y}$
Simulator Maintenance
$P248_{b,y} = P248_{b,y} + P162_{p,b,y}$
Facility Maintenance
$P249_{b,y} = P249_{b,y} + P146_{p,b,y}$
Contracted Flying Training
$P250_{b,y} = P250_{b,y} + P158_{p,b,y}$
Officers Pay and Allowances
$P251_{b,y} = P251_{b,y} + P138_{p,b,y}$
Airmen Pay and Allowances
$P252_{b,y} = P252_{b,y} + P139_{p,b,y}$
Civilian Pay
$P253_{b,y} = P253_{b,y} + P140_{p,b,y}$
Training
$P254_{b,y} = P254_{b,y} + P141_{p,b,y} + P143_{p,b,y}$
Travel
$P255_{b,y} = P255_{b,y} + P142_{p,b,y} + P144_{p,b,y}$
Supplies and Services
$P256_{b,y} = P256_{b,y} + P147_{p,b,y}$
Total Cost by Phase Not Assigned to Base
$P270_{p,y} = P108_{p,y} + P109_{p,y} + P110_{p,y} + A13y_{p,y} + P340_{p,y}$
dc

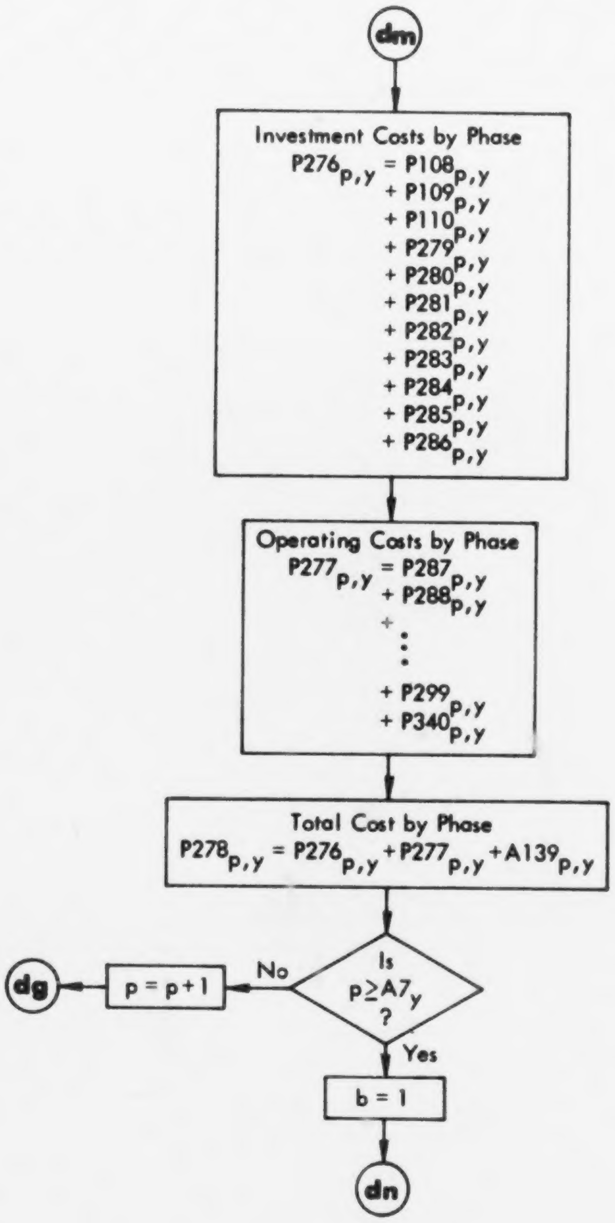

dc
Total Costs by Phase
$P257_{p,b,y} = P170_{p,b,y} + P112_{p,b,y} + P114_{p,b,y} + P113_{p,b,y} + P134_{p,b,y} + P117_{p,b,y}$
$P120_{p,b,y} + P121_{p,b,y} + P123_{p,b,y} + P124_{p,b,y} + P159_{p,b,y} + P160_{p,b,y} + P198_{p,b,y} + P161_{p,b,y} + P162_{p,b,y} + P146_{p,b,y} + P158_{p,b,y} + P138_{p,b,y} + P139_{p,b,y} + P140_{p,b,y} + P141_{p,b,y} + P142_{p,b,y}$
$P143_{p,b,y} + P144_{p,b,y} + P147_{p,b,y}$
$P258_{b,y} = P258_{b,y} + P257_{p,b,y}$
$P272_{y} = P272_{y} + P270_{p,y}$
Is $p \geq A7_{y}$?
No
$p = p+1$
da
Yes
Costs by Base
Base Support Equipment Cost
$P239_{b,y} = P239_{b,y} + P126_{b,y}$
Stocks
$P241_{b,y} = P241_{b,y} + P127_{b,y}$
Initial Training
$P242_{b,y} = P242_{b,y} + P130_{b,y} + P132_{b,y}$
Initial Travel
$P243_{b,y} = P243_{b,y} + P131_{b,y} + P133_{b,y}$
Facility Maintenance
$P249_{b,y} = P249_{b,y} + P156_{b,y}$
Officers Pay and Allowances
$P251_{b,y} = P251_{b,y} + P148_{b,y}$
Airmen Pay and Allowances
$P252_{b,y} = P252_{b,y} + P149_{b,y}$
Civilian Pay
$P253_{b,y} = P253_{b,y} + P150_{b,y}$
Training
$P254_{b,y} = P254_{b,y} + P151_{b,y} + P154_{b,y}$
Travel
$P255_{b,y} = P255_{b,y} + P152_{b,y} + P153_{b,y} + P155_{b,y}$
Supplies and Services
$P256_{b,y} = P256_{b,y} + P157_{b,y}$
de

SEGMENT SEVEN: COST

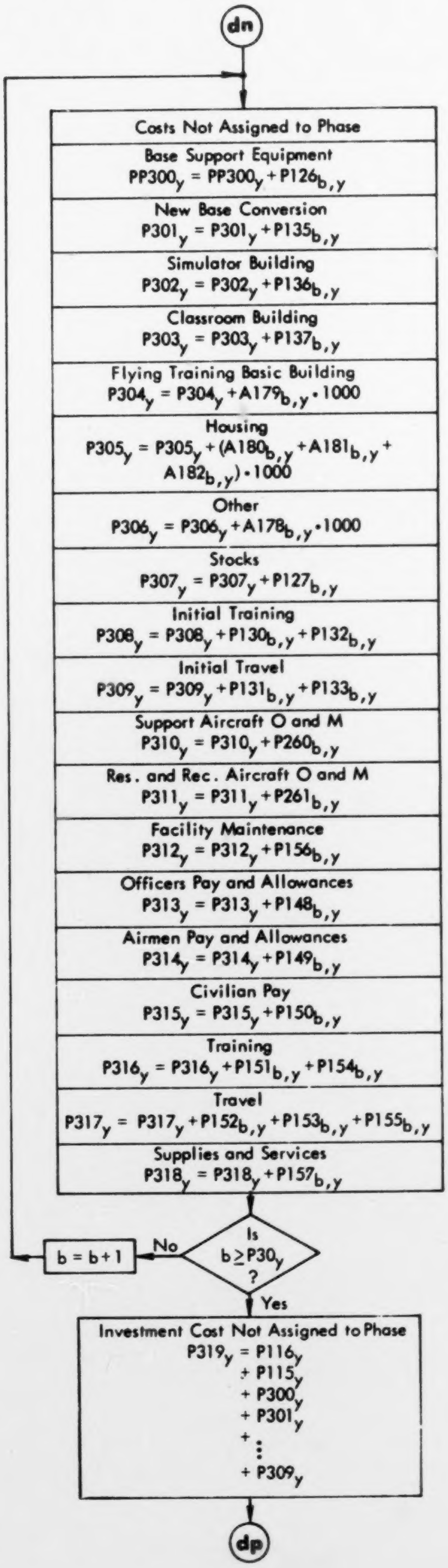

de
Total Cost Not Assigned To Base or Phase
$P271_y = P116 + P115_y$
Total Costs Not Assigned to Phase
$P259_{b,y} = P236_{b,y} + P127_{b,y} + P130_{b,y} + P132_{b,y} + P131_{b,y} + P133_{b,y} + P156_{b,y} + P148_{b,y} + P149_{b,y} + P150_{b,y} + P151_{b,y} + P154_{b,y} + P152_{b,y} + P153_{b,y} + P155_{b,y} + P157_{b,y} + P135_{b,y} + P136_{b,y} + P137_{b,y} + A179_{b,y}\cdot 1000 + A180_{b,y}\cdot 1000 + A181_{b,y}\cdot 1000 + A182_{b,y}\cdot 1000 + A178_{b,y}\cdot 1000 + P260_{b,y} + P261_{b,y}$
$P258_{b,y} = P258_{b,y} + P259_{b,y}$
$P273_y = P272_y + P271_y$
Investment Cost - No Base
$P274_y = P266_y + P267_y + P268_y + P116_y + P115_y$
Investment Cost by Base
$P263_{b,y} = P236_{b,y} + P237_{b,y} + P238_{b,y} + P239_{b,y} + P240_{b,y} + P241_{b,y} + P242_{b,y} + P243_{b,y} + P135_{b,y} + P136_{b,y} + P137_{b,y} + (A179_{b,y} + A180_{b,y} + A181_{b,y} + A182_{b,y} + A178_{b,y})\cdot 1000$
dk
dk
Operating Cost by Base
$P264_{b,y} = P244_{b,y} + P245_{b,y} + P246_{b,y} + P247_{b,y} + P248_{b,y} + P249_{b,y} + P250_{b,y} + P251_{b,y} + P252_{b,y} + P253_{b,y} + P254_{b,y} + P255_{b,y} + P256_{b,y} + P260_{b,y} + P261_{b,y}$
Housing Cost
$P265_{b,y} = (A180_{b,y} + A181_{b,y} + A182_{b,y})\cdot 1000$
Is $b \geq P30_y$?
No
$b = b+1$
df
Yes
$P300_y = 0$
$P301_y = 0$
$P138_y = 0$
$P332_y = 0$
$P335_y = 0$
$p = 1$
dg
$P279_{p,y} = 0$
$P280_{p,y} = 0$
$P299_{p,y} = 0$
$b = 1$
dl

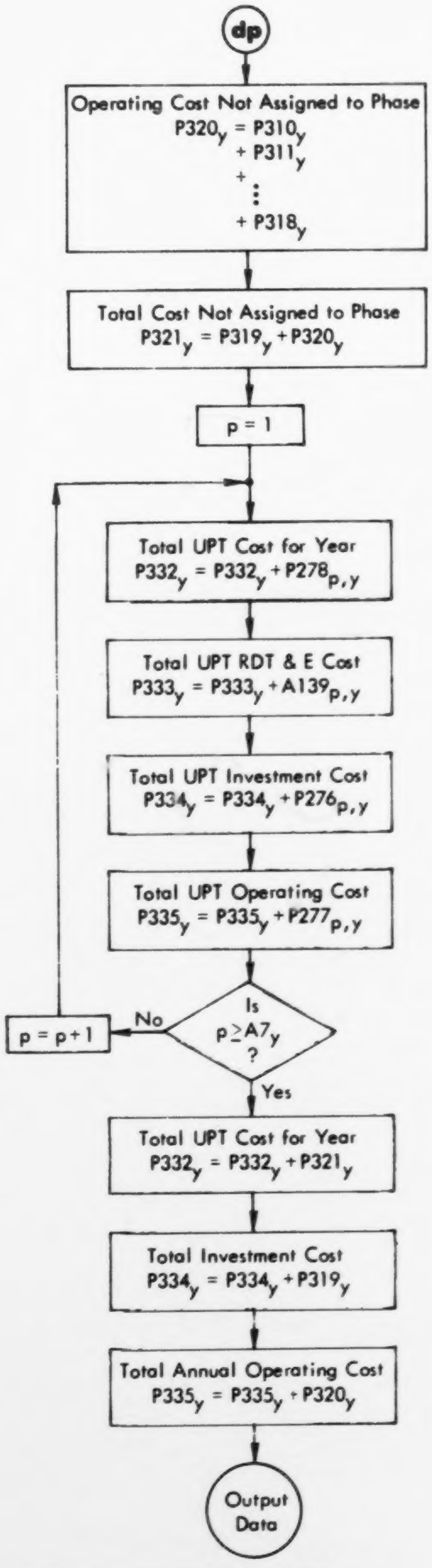
SEGMENT SEVEN: COST


dl
Costs by Phase
Simulator
$P279_{p,y} = P279_{p,y} + P170_{p,b,y}$
Simulator Spares
$P280_{p,y} = P280_{p,y} + P112_{p,b,y}$
Training Equipment
$P281_{p,y} = P281_{p,y} + P114_{p,b,y}$
Base Support and Equipment
$P282_{p,y} = P282_{p,y} + P113_{p,b,y}$
Runways
$P283_{p,y} = P283_{p,y} + P134_{p,b,y}$
Stocks
$P284_{p,y} = P284_{p,y} + P117_{p,b,y}$
Initial Training
$P285_{p,y} = P285_{p,y} + P123_{p,b,y} + P120_{p,b,y}$
Initial Travel
$P286_{p,y} = P286_{p,y} + P124_{p,b,y} + P121_{p,b,y}$
Depot Maintenance
$P287_{p,y} = P287_{p,y} + P159_{p,b,y}$
Base Materiel
$P288_{p,y} = P288_{p,y} + P160_{p,b,y}$
Contracted Maintenance
$P289_{p,y} = P289_{p,y} + P188_{p,b,y}$
POL
$P290_{p,y} = P290_{p,y} + P161_{p,b,y}$
Simulator Maintenance
$P291_{p,y} = P291_{p,y} + P162_{p,b,y}$
Facility Maintenance
$P292_{p,y} = P292_{p,y} + P146_{p,b,y}$
Contracted Flying Training
$P293_{p,y} = P293_{p,y} + P158_{p,b,y}$
Officers Pay and Allowances
$P294_{p,y} = P294_{p,y} + P138_{p,b,y}$
Airmen Pay and Allowances
$P295_{p,y} = P295_{p,y} + P139_{p,b,y}$
Civilian Pay
$P296_{p,y} = P296_{p,y} + P140_{p,b,y}$
Training
$P297_{p,y} = P297_{p,y} + P141_{p,b,y} + P143_{p,b,y}$
Travel
$P298_{p,y} = P298_{p,y} + P142_{p,b,y} + P144_{p,b,y}$
Supplies and Services
$P299_{p,y} = P299_{p,y} + P147_{p,b,y}$
Is $b \geq P30_y$?
No
$b = b + 1$
Yes
dm


dm
Investment Costs by Phase
$P276_{p,y} = P108_{p,y} + P109_{p,y} + P110_{p,y} + P279_{p,y} + P280_{p,y} + P281_{p,y} + P282_{p,y} + P283_{p,y} + P284_{p,y} + P285_{p,y} + P286_{p,y}$
Operating Costs by Phase
$P277_{p,y} = P287_{p,y} + P288_{p,y} + \vdots + P299_{p,y} + P340_{p,y}$
Total Cost by Phase
$P278_{p,y} = P276_{p,y} + P277_{p,y} + A139_{p,y}$
Is $p \geq A7_y$?
No
$p = p + 1$
dg
Yes
$b = 1$
dn

SEGMENT SEVEN: COST


dn
Costs Not Assigned to Phase
Base Support Equipment
$PP300_y = PP300_y + P126_{b,y}$
New Base Conversion
$P301_y = P301_y + P135_{b,y}$
Simulator Building
$P302_y = P302_y + P136_{b,y}$
Classroom Building
$P303_y = P303_y + P137_{b,y}$
Flying Training Basic Building
$P304_y = P304_y + A179_{b,y} \cdot 1000$
Housing
$P305_y = P305_y + (A180_{b,y} + A181_{b,y} + A182_{b,y}) \cdot 1000$
Other
$P306_y = P306_y + A178_{b,y} \cdot 1000$
Stocks
$P307_y = P307_y + P127_{b,y}$
Initial Training
$P308_y = P308_y + P130_{b,y} + P132_{b,y}$
Initial Travel
$P309_y = P309_y + P131_{b,y} + P133_{b,y}$
Support Aircraft O and M
$P310_y = P310_y + P260_{b,y}$
Res. and Rec. Aircraft O and M
$P311_y = P311_y + P261_{b,y}$
Facility Maintenance
$P312_y = P312_y + P156_{b,y}$
Officers Pay and Allowances
$P313_y = P313_y + P148_{b,y}$
Airmen Pay and Allowances
$P314_y = P314_y + P149_{b,y}$
Civilian Pay
$P315_y = P315_y + P150_{b,y}$
Training
$P316_y = P316_y + P151_{b,y} + P154_{b,y}$
Travel
$P317_y = P317_y + P152_{b,y} + P153_{b,y} + P155_{b,y}$
Supplies and Services
$P318_y = P318_y + P157_{b,y}$
Is $b \geq P30_y$?
No
$b = b+1$
Yes
Investment Cost Not Assigned to Phase
$P319_y = P116_y + P115_y + P300_y + P301_y + \vdots + P309_y$
dp


dp
Operating Cost Not Assigned to Phase
$P320_y = P310_y + P311_y + \vdots + P318_y$
Total Cost Not Assigned to Phase
$P321_y = P319_y + P320_y$
$p = 1$
Total UPT Cost for Year
$P332_y = P332_y + P278_{p,y}$
Total UPT RDT & E Cost
$P333_y = P333_y + A139_{p,y}$
Total UPT Investment Cost
$P334_y = P334_y + P276_{p,y}$
Total UPT Operating Cost
$P335_y = P335_y + P277_{p,y}$
Is $p \geq A7_y$?
No
$p = p+1$
Yes
Total UPT Cost for Year
$P332_y = P332_y + P321_y$
Total Investment Cost
$P334_y = P334_y + P319_y$
Total Annual Operating Cost
$P335_y = P335_y + P320_y$
Output Data

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